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**Third Quarter 2010 Groundwater Monitoring Report
Former CENCO Refinery
12345 Lakeland Road, Santa Fe Springs, CA**

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Prepared on Behalf of

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Prepared for

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1. INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Third Quarter 2010 Groundwater Monitoring Report* for CENCO Refining Company for its former refinery located at 12345 Lakeland Road in Santa Fe Springs, California (site; Figure 1).

1.1 Purpose

The objective of the monitoring is to evaluate groundwater quality beneath the site and adjacent properties (Figure 2). This report presents the groundwater monitoring activities performed between July 30th and August 9th, 2010, in accordance with California Regional Water Quality Control Board, Los Angeles Region (RWQCB) Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (Figure 2). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to two CAOs (Nos. 85-17 and 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1985 and 1997 (Haley & Aldrich, 2005).

2. GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in May 2010. The following subsections summarize work completed during the third quarter 2010 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes 44 wells as listed in Table I and shown on Figure 2. These wells include:

- Sixteen onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Sixteen downgradient offsite groundwater monitoring wells of which:
 - Three are located on the former Lakeland property: MW-501A, MW-502, and MW-503B; and
 - Thirteen are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite deep former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex attempted to gauge all 44 wells on July 30, 2010. Out of the total 44 wells, 19 were dry and 2 contained free-phase petroleum hydrocarbon (FPPH) as follows:

- Wells containing groundwater: MW-104A, MW-106A, MW-107A, MW-503B, W-1, W-4, W-7, W-8, W-9, W-10, W-12, W-14A, W-14B, W-14C, W-15A, W-15B, W-15C, W-16A, W-16B, W-16C, W-17A, W-17B, and W-17C;
- Dry wells: MW-101, MW-103, MW-105, MW-201, MW-202, MW-203, MW-204, MW-205, MW-501A, MW-502, MW-504, MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, and W-3A;
- Wells with FPPH: EW-1 and W-11.

Table II summarizes the groundwater elevation measurements.

2.3 Groundwater Purging

All monitoring wells that contained groundwater, with the exception of wells with FPPH and production wells W-7 and W-8, were purged via a vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. During purging, extracted groundwater volume and quality were monitored for flow rate, temperature, pH, turbidity, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter monitoring are summarized in Table V. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the site.

2.4 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected from the 23 wells in sample containers (unpreserved and preserved with hydrochloric acid depending on the analytical method), which were stored in pre-cooled ice chests and transported under proper chain-of-custody (COC) procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) # 2250. All collected samples were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M,
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B, and
- Hexavalent chromium by USEPA Method 7199.

Results of the aforementioned laboratory analyses are summarized in Tables III (hexavalent chromium and TPHg) and IV (VOCs and oxygenates).

To evaluate potential evidence of biological degradation of petroleum hydrocarbons in groundwater, additional samples were to be collected from four monitoring wells (MW-104A, MW-205, MW-606, and MW-503B) for analysis for several biodegradation parameters. However, two of these wells (MW-205 and MW-606) were dry. As a result, only samples collected from wells MW-104A and MW-503B were submitted to Sunstar Labs for the following analysis:

- Methane by USEPA Method RSK-175,
- Nitrate and sulfate by USEPA Method 300.0,
- Alkalinity by Standard Method (SM) 2320B, and
- Ferrous iron (Fe^{2+}) by SM 3500-Fe D.

Results of biological parameter analyses are summarized in Table V.

2.5 Quality Assurance/Quality Control

As per the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.5.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.5.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-107A, W-7 and W-16C. This represents a duplicate frequency exceeding 10% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples.

2.5.3 Equipment Blanks

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

3. RESULTS & DISCUSSION

This section presents the results of the third quarter 2010 groundwater monitoring event. As mentioned earlier in the report, well completion details (as adapted from Dan Herlihy Environmental Services, 2006) are provided in Table I. Groundwater level measurements, depths to water and FPPH, and groundwater elevations are summarized in Table II. Analytical results are compiled in Tables III through V.

Well measurement and groundwater sampling forms are attached as Appendix A. Laboratory reports and completed COCs are included in Appendix B. Murex has combined new and historical data and will present VOC and TPHg concentration trend graphs to the RWQCB in future submittals, once electronic files from previous consultants become available.

The presentation of the results in this report does not distinguish between site- and non-site-related constituents although there are indications of non-site-related contamination in groundwater.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (Tables I and II). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on Figure 3.

Based on groundwater level measurements obtained on July 30, 2010, first-encountered groundwater beneath the site vicinity ranges in elevation from 11.59 to 50.12 feet above mean sea level. Groundwater elevations continued to drop and have decreased by an average of approximately 1.19 feet since May 2010 (Murex, 2010).

The average horizontal groundwater gradient is approximately 0.009 foot per foot (ft/ft), as shown in Figure 3. The groundwater flow direction during this monitoring event is to the south-southwest. This flow direction is relatively consistent with those historically reported in previous investigations.

The significant drop in groundwater elevation (approximately 25 to 30 feet) that occurred over the past ten years has resulted in many of the groundwater monitoring wells going dry. Regionally, groundwater elevations have decreased because of the drought conditions the State of California has been experiencing; however, local groundwater levels may have been influenced by the pumping operations of water supply wells in the vicinity of the site.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1 and W-11 (Table II). FPPH was measured at a thickness of 0.78 feet and 0.60 feet in EW-1 and W-11, respectively. During previous monitoring events, FPPH was detected in wells EW-1 and W-11, as well as in MW-502, MW-504, and W-3A. The three latter wells were dry during this event.

3.3 Groundwater Analysis

Groundwater analytical results are summarized in Tables III through V, and laboratory reports and completed COCs are included in Appendix B.

3.3.1 TPHg

Third quarter 2010 TPHg results are presented in Table III and Figure 4. TPHg was detected in 15 of the 23 sampled wells at concentrations ranging from 55 micrograms per liter ($\mu\text{g}/\text{L}$) in monitoring well W-14B to 7,900 $\mu\text{g}/\text{L}$ in monitoring well W-10. Compared to the second quarter of 2010, TPHg concentrations decreased in 13 wells, increased in 5 wells, and remained the same in 5 wells.

Groundwater samples collected from monitoring well MW-503B exhibited the largest increase in TPHg concentrations when compared to the May 2010 monitoring event (from 2,900 $\mu\text{g}/\text{L}$ to 3,700 $\mu\text{g}/\text{L}$). The most significant decrease was observed in monitoring well W-10, where TPHg concentrations dropped from 9,500 $\mu\text{g}/\text{L}$ to 7,900 $\mu\text{g}/\text{L}$ during the same period.

3.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical data for the third quarter 2010 is presented in Table IV. Historical data from previous monitoring events are also included in Table IV. Murex has combined new and historical data and will present concentration trends to the RWQCB in future submittals, once electronic files from previous consultants become available.

3.3.2.1 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene was detected in samples collected from 11 wells at concentrations ranging from 0.54 µg/L in well W-15A to 2,400 µg/L in well W-10 (Figure 5). Samples collected from 9 wells contained benzene at concentrations exceeding the 1 µg/L California Maximum Contaminant Level (MCL) in drinking water. Benzene concentrations in the third quarter of 2010 were similar to concentrations observed during previous monitoring events.

Of the other BTEX compounds analyzed for, toluene was detected in samples from 4 wells at concentrations ranging from 0.8 µg/L in W-8 to 160 µg/L in MW-107A. Toluene was not detected above its California MCL (150 µg/L) in any of the sampled wells; however, it was detected at its MCL value in well MW-107A. Ethylbenzene was detected in the samples collected from 4 wells at concentrations ranging from 2.4 µg/L in MW-503B to 130 µg/L in W-10. Ethylbenzene was not detected above its California MCL (300 µg/L) in any of the sampled wells. Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 3 wells at concentrations ranging from 0.65 µg/L in MW-503B to 110 µg/L in W-10. All xylene detections were less than the California MCL of 1,750 µg/L.

3.3.2.2 *Methyl tert-Butyl Ether (MTBE)*

The oxygenate MTBE was detected in samples from 2 wells at concentrations ranging from 19 µg/L in W-15B to 71 µg/L in W-15A (Figure 5), with both detections exceeding the 13 µg/L drinking water MCL established for MTBE in California.

3.3.2.3 *tert-Butyl Alcohol (TBA)*

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in 5 of the 23 sampled wells at concentrations ranging from 10 µg/L in well W-1 to 180 µg/L in well W-15A. The California Notification Level (formerly Action Level) and Response Level for Drinking Water for TBA is 12 µg/L. Four of the 5 TBA detections exceeded this limit.

3.3.2.4 *Other VOCs*

In addition to the aforementioned constituents of concern, 17 VOCs were detected in groundwater during this monitoring event. The constituents are as follows, with the frequency of detection (number of wells) shown in parentheses:

<i>cis</i> -1,2-dichloroethene (<i>c</i> -1,2-DCE) (10)	isopropylbenzene (9)
<i>n</i> -propylbenzene (9)	<i>sec</i> -butylbenzene (7)
1,1-dichloroethane (1,1-DCA) (4)	trichloroethene (TCE) (4)
vinyl chloride (4)	1,2-dichloroethane (1,2-DCA) (3)
<i>trans</i> -1,2-dichloroethene (<i>t</i> -1,2-DCE) (3)	naphthalene (4)
1,2,4-trimethylbenzene (2)	1,3,5-trimethylbenzene (2)
1,1-dichloroethene (1,1-DCE) (2)	<i>n</i> -butylbenzene (2)
<i>tert</i> -butylbenzene (2)	chloromethane(2)
<i>p</i> -isopropyltoluene (1)	

Contrary to the previous monitoring event, PCE was not detected this quarter and TCE was detected at a concentration exceeding the 5 µg/L California MCL only in the samples collected from wells W-14C (7.8 µg/L), MW-107A (8.3 µg/L), and W-14B (17 µg/L).

3.3.3 Hexavalent Chromium

Hexavalent chromium was not detected in any of the groundwater samples collected from the monitoring and production wells during this quarter. Due to the short holding time for this analysis, the laboratory was not able to analyze 12 hexavalent chromium samples within the USEPA-recommended holding time of 24 hours. Sample digestion and hold time procedures were reviewed so as to put a system in place to prevent this from happening in the future. Nevertheless, hexavalent chromium has not been detected in any wells in the past few years of groundwater monitoring at the site.

3.3.4 Distribution of Constituents

3.3.4.1 Potential Offsite Sources of VOCs

Groundwater collected from the monitoring wells along Bloomfield Avenue, located cross-gradient at the south-eastern boundary of the site, contained chlorinated hydrocarbons. Also, upgradient wells MW-104A and W-17A contain *cis*-1,2-DCE. The detection of these contaminants in up- and cross-gradient wells and other off-site wells to the east suggests the presence of potential offsite, upgradient source(s). In addition, previous monitoring events resulted in the detection of chlorinated hydrocarbons in samples collected from wells located on the west side of the site (MW-105) and the west side of the MSH property (MW-603 and W-14B).

3.3.4.2 TPHg and VOCs

The highest concentrations of TPHg detected during this sampling event were in the north-central and southwestern portions of the site, extending east and southeast towards Bloomfield and Walker properties, respectively (Figure 4). TPHg was detected at a concentration of 7,900 µg/L in monitoring well W-10, located in the north-central part of the site. A TPHg concentration of 3,700 µg/L was detected in the sample collected from monitoring well MW-503B, located at the former Lakeland property.

In two of the aforementioned wells, the highest benzene concentrations were also detected: 2,400 µg/L in W-10 and 270 µg/L in MW-503B (Figure 5). Well W-10 was also associated with the highest concentrations of several VOCs, since there are more VOCs but at lower concentrations, including ethylbenzene (130 µg/L), naphthalene (60 µg/L), 1,2,4-trimethylbenzene (62 µg/L), 1,3,5-trimethylbenzene (10 µg/L), and total xylenes (112 µg/L). Well MW-503B contained the highest concentrations of several other VOCs such as isopropylbenzene (25 µg/L), sec-butylbenzene (17 µg/L), and 1,2-DCA (3.8 µg/L). The only MTBE detections were observed in wells W-15A and W-15B at 71 µg/L and 19 µg/L, respectively.

Wells exhibiting FPPH were not sampled; however, these will likely exhibit TPHg concentrations in excess of 10% of the aqueous solubility of the petroleum mixture. The solubility of the various gasoline-range hydrocarbons can span from 36 milligrams per liter (mg/L) for C5-C6 chain down to 5.4 mg/L for C6-C8 chain (Gustafson, 1996). Assuming a mean solubility of 10 mg/L, the concentrations of TPHg in wells containing FPPH will likely exceed 1 mg/L or 1,000 µg/L.

In general, the footprint of impacted groundwater emanating from the southwestern corner of the site has not changed shape or size substantially since the last groundwater monitoring event in May 2010.

3.3.5 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+} , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will

begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while Fe^{2+} concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.5.1 *Field Measured Parameters*

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 20 monitoring wells using a YSI 556 water quality meter (Table V). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.36 to 8.10, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration.

DO concentrations ranged from 1.96 to 4.60 mg/L, reflecting an aerobic environment. It is important to note that the vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content.

- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Anaerobic biodegradation has a tendency to create reducing conditions, resulting in negative ORP readings.

The most negative ORP values were observed in samples from monitoring wells MW-107A (-280 mV), W-16B (-217 mV), W-17B (-189 mV), W-17C (-167 mV), W-16C (-165 mV), W-15A (-145 mV), W-12 (-100 mV), and W-9 (-60 mV). A hydrogen sulfide odor (produced from the reduction of sulfate in groundwater) was detected during purging of wells MW-

106A, MW-107A, MW-503B, W-1, W-4, W-10, W-12, W-16B, W-16C, and W-17C, providing additional evidence that anaerobic conditions are present. The most positive ORP values were observed in samples from monitoring wells MW-106A (210 mV), MW-104A (205 mV), MW-503B (147 mV), W-14A (145 mV), W-14C (128 mV), W-15C (108 mV), W-15B (107 mV), and W-16A (106 mV). As with DO measurements, ORP measurements can be affected by disturbance and exposure to the atmosphere during sample collection; however; this parameter is more stable than DO and will likely reflect actual conditions.

The measurements discussed above indicate that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.5.2 *Laboratory Measured Parameters*

Groundwater samples from wells MW-104A and MW-503B were analyzed by SunStar Labs for methane, nitrate, sulfate, total alkalinity, and Fe^{2+} . Two wells, MW-205 and MW-606, were originally chosen for the evaluation of biodegradation potential based on their locations; however, both wells were dry during this monitoring event and hence were not sampled. Sulfide was analyzed by SunStar labs for five (5) different samples that were submitted; this is due to the belief that the analyte was affecting the analytical equipment for other analyses that were performed. Sulfide was only detected in MW-107A in the original and duplicate samples collected at a concentration of 450 and 190 $\mu\text{g/L}$, respectively.

- **Total Alkalinity** – Total alkalinity results from the presence of hydroxides, carbonates, and bicarbonates. Aerobic biodegradation in groundwater may result in increased alkalinity due to the evolution of carbon dioxide.

Results were similar to those observed in previous monitoring events in 2009 and 2010. The highest alkalinity concentration (808 mg/L) was observed in the sample collected from monitoring well MW-104A (slightly higher than the 790 mg/L concentration measured in the July 2009, December 2009, and March 2010 sampling events). Groundwater at well MW-503B contained a total alkalinity of 752 mg/L (lower than the 760 mg/L concentration measured in May 2010). The relatively high alkalinity levels observed in these wells indicate that the local environment is conducive to methanogenesis and that prior to methanogenesis, aerobic degradation may have occurred. When TPHg is degraded aerobically, carbon dioxide is released into the aqueous environment in the form of carbonates or bicarbonates, raising the alkalinity.

- **Nitrate** – Nitrate may be used as an electron acceptor in anoxic environments where DO has been depleted. During this biodegradation process, nitrate loses an oxygen atom and is reduced to nitrite in part of a process called denitrification. Decreased concentrations of nitrate in wells containing higher concentrations of hydrocarbons generally indicate the occurrence of denitrification.

Nitrate was not detected in either of the samples collected from wells MW-104A and MW-503B this quarter. However, geochemical conditions in localized groundwater may still be suitable for denitrification.

- **Ferrous Iron (Fe^{2+})** – Ferric iron (Fe^{3+}) may be used as an electron acceptor during anaerobic degradation of petroleum hydrocarbons when it is reduced to ferrous iron (Fe^{2+}). Fe^{2+} was not observed in the groundwater samples collected from monitoring wells MW-503B and MW-104A during this quarter. However, Fe^{3+} reduction may still be occurring in localized groundwater.
- **Sulfate** – Sulfate may also be used as an electron acceptor for anaerobic biodegradation once DO and nitrate are (nearly) exhausted. A drop in sulfate concentrations in wells with high concentrations of petroleum hydrocarbons indicates the occurrence of anaerobic biodegradation.

Sulfate was detected in groundwater samples collected from both wells at concentrations of 87 mg/L (MW-104A) and 10.3 mg/L (MW-503B).

- **Methane** – Dissolved methane is a byproduct of methanogenic reducing activity, which is indicative of anaerobic biodegradation. Methane is typically produced once the electron acceptors oxygen, sulfate, and nitrate have been completely utilized. Therefore, as methane concentrations increase, DO, sulfate, and nitrate concentrations typically decrease.

Methane was detected at concentrations of 92.8 mg/L in MW-104A and 71.8 mg/L in MW-503B, which are elevated readings when compared to the second quarter.

Methane was detected in the second quarter for these same wells at concentrations of 0.814 mg/L (MW-104A) and 9.98 mg/L (MW-503B.) The presence of methane in these wells indicates that methanogenesis is likely occurring.

3.3.6 QA/QC

Duplicate sample results are provided alongside their primary sample results in Tables III through V. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

4. SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in July and August 2010 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 44 wells and collecting samples from 23 of those wells for analysis of TPHg, VOCs, and hexavalent chromium. Two of the wells were also sampled for analysis of biodegradation parameters including methane, nitrate, sulfate, total alkalinity, and Fe²⁺.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.009 ft/ft was calculated for the third quarter groundwater monitoring event. This is consistent with historical gradient data for the site. Overall, groundwater levels have dropped by an average of 1.19 feet since the second quarter monitoring event of May 2010. Groundwater flows south-southwesterly near the site, and historically groundwater flow direction takes a more southerly route beneath the MSH property.

The significant drop in groundwater elevation (approximately 25 to 30 feet), documented over the last ten years, has resulted in the dewatering of many of the groundwater monitoring wells. Regionally, groundwater elevations have decreased because of the drought conditions the State of California has been experiencing; however, local groundwater levels may have been influenced by the pumping operations of water supply wells in the vicinity of the site. According to reports published by the Water Replenishment District, municipal pumping has been underway in the City of Santa Fe Springs and the neighboring City of Norwalk to the west, the southeast, and the south.

4.2 Free-Phase Petroleum Hydrocarbons

The number of wells in which FPPH was observed decreased from six in June 2004, to four in October 2005, to two in February 2006, to one in November 2007 (MW-600A) and in February 2008 (W-11), although the decrease is likely a result of the inability to conduct measurements in dry wells. FPPH was observed in two wells during the third quarter 2010 monitoring event. The FPPH thickness detected within these wells (0.78 to 0.81 feet) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex will further characterize the extent of free-phase petroleum hydrocarbon impact beneath the vicinity of the site, once approval has been granted by the RWQCB.

4.3 Groundwater Quality

Current groundwater quality is generally consistent with historical observations and analyses. Third quarter 2010 TPHg results are presented in Table III and Figure 4. TPHg was detected in 15 of the sampled 23 wells at concentrations ranging from 55 µg/L in monitoring well W-14B to 7,900 µg/L in well W-10. Compared to the second quarter of 2010, TPHg concentrations have remained relatively stable.

The footprint of impacted groundwater emanating from the southwestern corner of the site has not changed substantially in shape or size since the previous groundwater monitoring events.

Hexavalent chromium was not detected in any of the sampled wells, nor has it been detected in previous years. Hence, is not considered a constituent of concern at the site. Murex has recommended that hexavalent chromium be removed from the monitoring and reporting program.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe²⁺, methane, alkalinity, and ORP results. The main limiting factor is oxygen which, if introduced mechanically, could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex intends to conduct pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination.

4.5 Recommendations

Lakeland has recently submitted the Groundwater Monitoring and Investigation Workplan and the Free-Phase Petroleum Hydrocarbon Investigation Workplan, both dated September 3, 2010 to the LARWQCB. In these workplans, Murex has made several recommendations with respect to groundwater, including:

1. Complete the FPPH investigation and submit a summary report;

2. Replace a subset of the groundwater monitoring wells that have gone dry in order to maintain monitoring capability over the hydrocarbon plume;
3. Make modifications to the analytes listed under the current monitoring and reporting program to reflect the findings of several consecutive years of data; and
4. Implement a new procedure for measuring and verifying FPPH in groundwater monitoring wells to include them in the groundwater analysis schedule;

Upon LARWQCB approval, Murex is prepared to enact these recommendations on behalf of Lakeland.

5. REFERENCES

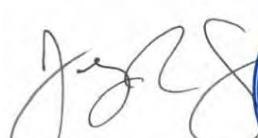
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6. CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,
MUREX ENVIRONMENTAL, INC.


Jeremy R Squire, PE
Senior Engineer



The seal is circular with the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge. In the center, it says "JEREMY R. SQUIRE" and "CIVIL # 69466". At the bottom, it says "STATE OF CALIFORNIA" and "Exp. JUNO 2012".


Paris Hajali, Ph.D., P.E.
Principal

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation				Completion Data																		Location	Reference(s)
Well ID	Date	By	Elevation ¹		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation ¹ (ft)								
			Ground Surface	Top of Casing			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth				
			(ft)	(ft amsl)			(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing	Hole			
Groundwater Monitoring Wells																							
EW-1	6/11/1905	Emcon	146.16	144.78	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)	
MW-101	8/28/1985	IT	137.55	135.23	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-103	8/30/1985	IT	138.74	136.95	12	4	-	20	-	-	79	99	99	99.5	-	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	142.09	12	4	-	20	-	-	76.5	96.5	97	99	-	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	143.64	141.16	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro	141.03	138.63	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	148.41	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.50	152.17	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report	
MW-107	12/1995	TriHydro	-	148.93	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	146.70	146.28	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report	
MW-201	9/10/1985	IT	134.94	132.91	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-202	9/23/1985	IT	139.97	127.89	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-203	9/13/1985	IT	143.40	143.02	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)	
MW-204	9/19/1985	IT	142.44	140.14	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-205	9/14/1985	IT	139.71	138.04	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-206 ²	9/18/1985	IT	-	129.93	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)	
MW-501	6/9/1986	IT	-	128.70	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)	
MW-501A	3/1999	ATC	129.98	-	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth	
MW-502	6/11/1986	IT	130.29	128.30	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)	
MW-503	6/13/1986	IT	-	131.43	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)	
MW-503B	1/1999	Versar	131.86	129.96	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth	
MW-504	6/18/1986	IT	-	134.51	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)	
MW-600	8/15/1990	ENSR	-	120.05	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)	
MW-600A	6/1999	Versar	123.41	120.34	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth	
MW-601	8/17/1990	ENSR	-	125.03	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)	
MW-601A	6/1999	Versar	127.06	126.53	-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth	
MW-603	12/1995	TriHydro	119.86	118.54	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth	
MW-604	12/1995	TriHydro	139.25	138.16	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth	
MW-605	12/1995	TriHydro	115.33	114.54	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth	
MW-606	12/1995	TriHydro	114.54	113.89	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth	
MW-607	12/1995	TriHydro	127.00	126.03	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth	
W-1	12/1995	TRC	144.12	142.89	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)	
W-2 ²	12/1995	TRC	-	139.11	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (198	

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation				Completion Data														Location	Reference(s)			
Well ID	Date	By	Elevation ¹		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation ¹ (ft)							
			Ground Surface	Top of Casing			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted					
			(ft)	(ft amsl)			(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom				
W-14A	1/22/2008-1/30/2008	Boart Longyear	115.20	114.71	9	2	0.02	45	67	112	67	112	112	200	48	3	48	3	-85	MSH	ARCADIS (2008)	
W-14B			115.20	114.79	9	2	0.02	10	157	167	157	167	167	200	-42	-52	-42	-52	-85			
W-14C			115.20	114.80	9	2	0.02	10	185	195	185	195	195	200	-70	-80	-70	-80	-85			
W-15A	11/27/2007-12/10/2007	Cascade Drilling, Inc.	127.93	127.60	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			127.93	127.62	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			127.93	127.62	10	2	0.02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72		
W-16A	10/24/2007-10/30/2007	Cascade Drilling, Inc.	147.90	147.61	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			147.90	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			147.90	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008-2/8/2008	Boart Longyear	141.56	141.37	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			141.56	141.34	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			141.56	141.34	9	2	0.02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59		
Groundwater Production Wells																						
W-7	-	-	-	-	-	-	-	-	80	-	-	450	530	690	-	-	-	-	Refinery	IT (1986)		
						-	-	-	90	-	-	600	690	-	-	-	-	-	Refinery			
W-8	-	-	-	-	-	-	-	-	-	-	-	-	994	-	-	-	-	-	Refinery			

NOTES:

Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

¹Survey by BLC Surveying and BBL, Inc. Benchmark No. 13-15290 City of Los Angeles

²Well abandoned

ft Feet

in Inches

MSH Metropolitan State Hospital Property

amsl Above mean sea level

TA Test America Drilling

TOC Top of casing

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
Third Quarter 2010

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW 1	7/30/2010	NM	104.88	104.10	0.78	144.78	40.52
MW 101	7/30/2010	91.54	DRY	NA	0.00	135.23	NA
MW 103	7/30/2010	94.70	DRY	NA	0.00	136.95	NA
MW 104A	7/30/2010	100.08	93.27	NA	0.00	143.39	50.12
MW 105	7/30/2010	100.47	DRY	NA	0.00	138.63	NA
MW 106A	7/30/2010	110.00	105.68	NA	0.00	152.51	46.83
MW 107A	7/30/2010	109.49	102.92	NA	0.00	146.71	43.79
MW 201	7/30/2010	101.60	DRY	NA	0.00	132.91	NA
MW 202	7/30/2010	92.55	DRY	NA	0.00	137.89	NA
MW 203	7/30/2010	102.30	DRY	NA	0.00	143.43	NA
MW 204	7/30/2010	103.10	DRY	NA	0.00	142.18	NA
MW 205	7/30/2010	98.27	DRY	NA	0.00	138.04	NA
MW 501A	7/30/2010	93.27	DRY	NA	0.00	128.70	NA
MW 502	7/30/2010	100.59	DRY	NA	0.00	128.30	NA
MW 503B	7/30/2010	108.67	106.22	NA	0.00	129.96	23.74
MW 504	7/30/2010	95.76	DRY	NA	0.00	134.51	NA
MW 600A	7/30/2010	92.70	DRY	NA	0.00	120.34	NA
MW 601A	7/30/2010	89.90	DRY	NA	0.00	126.53	NA
MW 603	7/30/2010	97.60	DRY	NA	0.00	118.54	NA
MW 604	7/30/2010	103.20	DRY	NA	0.00	138.16	NA
MW 605	7/30/2010	93.98	DRY	NA	0.00	114.54	NA
MW 606	7/30/2010	99.05	DRY	NA	0.00	113.89	NA
MW 607	7/30/2010	107.05	DRY	NA	0.00	126.03	NA
W 1	7/30/2010	129.61	110.79	NA	0.00	142.89	32.10
W 10	7/30/2010	110.21	103.17	NA	0.00	139.99	36.82
W 11	7/30/2010	NM	107.51	106.91	0.60	141.29	34.26
W 12	7/30/2010	116.10	108.22	NA	0.00	144.42	36.20
W 14 A	7/30/2010	111.85	99.12	NA	0.00	114.71	15.59
W 14 B	7/30/2010	112.09	98.09	NA	0.00	114.79	16.70
W 14 C	7/30/2010	166.57	98.28	NA	0.00	114.80	16.52
W 15 A	7/30/2010	125.70	115.86	NA	0.00	127.60	11.74
W 15 B	7/30/2010	155.60	115.83	NA	0.00	127.62	11.79
W 15 C	7/30/2010	197.34	116.03	NA	0.00	127.62	11.59
W 16 A	7/30/2010	123.12	112.92	NA	0.00	147.61	34.69
W 16 B	7/30/2010	160.25	124.69	NA	0.00	147.68	22.99
W 16 C	7/30/2010	196.30	124.02	NA	0.00	147.67	23.65
W 17 A	7/30/2010	108.30	101.90	NA	0.00	141.37	39.47
W 17 B	7/30/2010	169.60	113.49	NA	0.00	141.34	27.85
W 17 C	7/30/2010	200.00	113.60	NA	0.00	141.34	27.74
W 3A	7/30/2010	111.73	DRY	NA	0.00	NM	NA
W 4	7/30/2010	129.71	112.65	NA	0.00	142.38	29.73
W 7	7/30/2010	NM	101.06	NA	0.00	NM	NA
W 8	7/30/2010	NM	83.00	NA	0.00	NM	NA
W 9	7/30/2010	110.37	93.01	NA	0.00	139.12	46.11

NOTES:

- ft Feet
- FPPH Free phase petroleum hydrocarbon
- amsl Above mean sea level
- NM Not measured, inaccessible
- NA Not available/applicable

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
EW-1	11/1/1989	-	-	-	9800	-	-
	8/21/1998	-	-	-	5000	-	-
	1/28/1999	-	-	-	7900	-	-
	7/19/1999	-	-	-	8000	-	-
	1/13/2000	-	-	-	NS	NS	-
	7/31/2000	-	-	-	NS	NS	-
	2/6/2001	-	-	-	NS	NS	-
	7/26/2001	-	-	-	NS	NS	-
	5/6/2002	-	-	-	NS	NS	-
	9/25/2002	-	-	-	NS	NS	-
	11/10/2006	<2	-	<20	-	-	-
	11/10/2006	-	-	-	4800	-	4800
	2/9/2007	<2	-	<10	-	-	-
	2/9/2007	-	-	-	4100	-	4100
	2/9/2007	-	<0.49	-	-	-	-
	5/10/2007	-	-	-	3300	-	3300
	5/10/2007	<2	-	<20	-	-	-
	8/10/2007	-	-	-	3200	-	3200
	8/10/2007	<2	-	<10	-	-	-
	2/8/2008	<2	-	<20	-	-	-
	2/8/2008	-	-	-	4100	-	4100
MW-101	12/13/1995	-	-	-	2400	-	-
	7/31/1996	-	-	-	2300	-	-
	12/17/1996	-	-	-	920	-	-
	1/19/1998	-	-	-	1400	-	-
	8/18/1998	-	-	-	3200	-	-
	1/26/1999	-	-	-	3200	-	-
	7/19/1999	-	-	-	1300	-	-
	1/10/2000	-	-	-	690	-	-
	8/3/2000	-	-	-	<500	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-101	2/9/2001	-	-	-	600	-	-
	7/26/2001	-	-	-	690	-	-
	5/8/2002	-	-	-	580	-	-
	9/25/2002	-	-	-	570	-	-
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	2700	-	2700
	11/10/2006	<2	-	<10	-	-	-
	11/10/2006	-	-	-	1900	-	1900
	2/12/2007	<2	-	<40	-	-	-
	2/12/2007	-	-	-	2100	-	2100
	2/12/2007	-	2.2	-	-	-	-
	5/11/2007	<2	-	<10	-	-	-
	5/11/2007	-	-	-	1100	-	1100
	8/8/2007	<2	-	<10	-	-	-
	8/8/2007	-	-	-	2600	-	2600
MW-103	11/8/2007	-	-	-	830	-	830
	11/8/2007	<0.2	-	<0.4	-	-	-
	12/13/1995	-	-	-	4100	-	-
	7/31/1996	-	-	-	2700	-	-
MW-103	12/17/1996	-	-	-	2400	-	-
	1/21/1998	-	-	-	1300	-	-
	8/19/1998	-	-	-	1600	-	-
	1/27/1999	-	-	-	1900	-	-
	7/19/1999	-	-	-	1800	-	-
	1/12/2000	-	-	-	1500	-	-
	8/4/2000	-	-	-	520	-	-
	2/9/2001	-	-	-	650	-	-
	7/25/2001	-	-	-	1300	-	-
	5/8/2002	-	-	-	200	-	-
	9/25/2002	-	-	-	690	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-103	8/3/2006	-	-	-	350	-	350
	8/3/2006	<2	-	<10	-	-	-
	11/8/2006	<2	-	<10	-	-	-
	11/8/2006	-	-	-	430	-	430
	2/8/2007	<2	-	<10	-	-	-
	2/8/2007	-	-	-	360	-	360
	2/8/2007	-	2	-	-	-	-
	5/9/2007	<2	-	<10	-	-	-
	5/9/2007	-	-	-	220	-	220
	8/8/2007	-	-	-	370	-	370
	8/8/2007	<2	-	<10	-	-	-
	11/6/2007	-	-	-	880	-	880
	11/6/2007	<0.2	-	<0.4	-	-	-
MW-104	12/13/1995	-	-	-	<500	-	-
	7/31/1996	-	-	-	<100	-	-
	12/16/1996	-	-	-	310	-	-
	1/20/1998	-	-	-	<100	-	-
	8/18/1998	-	-	-	<100	-	-
	1/27/1999	-	-	-	<100	-	-
MW-104A	7/19/1999	-	-	-	<500	-	-
	1/13/2000	-	-	-	<500	-	-
	8/2/2000	-	-	-	<500	-	-
	2/7/2001	-	-	-	<500	-	-
	7/25/2001	-	-	-	<100	-	-
	5/7/2002	-	-	-	100	-	-
	9/24/2002	-	-	-	<100	-	-
	6/30/2004	-	-	-	<200	-	-
	10/7/2005	<1	-	<5	-	-	-
	10/7/2005	-	-	-	<100	-	<

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-104A	2/15/2006	<0.3	-	<5	-	-	-
	2/15/2006	-	-	-	<50	-	<
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	540	-	540
	2/7/2007	-	0.64	-	-	-	-
	5/8/2007	<2	-	<10	-	-	-
	5/8/2007	-	-	-	33	-	33
	8/8/2007	0.28	-	<10	-	-	-
	8/8/2007	-	-	-	<50	-	<
	11/5/2007	-	-	-	<30	-	<
	11/5/2007	<0.2	-	<0.4	-	-	-
	2/4/2008	<2	-	<10	-	-	-
	2/4/2008	-	-	-	<50	-	<
	1/16/2009	<2	-	<10	-	-	-
	1/16/2009	-	-	-	46	-	46
	4/22/2009	-	-	-	<50	-	-
	4/22/2009	<2	-	<10	-	-	-
	3/3/2010	-	-	-	<50	-	-
MW-105	3/3/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	-	-	-	<50	-	-
	12/21/1995	-	-	-	<500	-	-
	7/31/1996	-	-	-	650	-	-
	12/16/1996	-	-	-	240	-	-
	1/20/1998	-	-	-	510	-	-
	8/18/1998	-	-	-	680	-	-
	1/25/1999	-	-	-	530	-	-
	7/19/1999	-	-	-	610	-	-
	1/10/2000	-	-	-	900	-	-
	7/31/2000	-	-	-	580	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-105	2/6/2001	-	-	-	610	-	-
	7/24/2001	-	-	-	210	-	-
	5/7/2002	-	-	-	530	-	-
	9/24/2002	-	-	-	<100	-	-
	6/30/2004	-	-	-	270	-	-
	10/6/2005	-	-	-	320	-	320
	10/6/2005	<1	-	<5	-	-	-
	2/15/2006	<0.3	-	<5	-	-	-
	2/15/2006	-	-	-	205	-	205
	8/1/2006	<2	-	<10	-	-	-
	8/1/2006	-	-	-	330	-	330
	11/8/2006	<2	-	<10	-	-	-
	11/8/2006	-	-	-	230	-	230
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	160	-	160
	2/7/2007	-	1.5	-	-	-	-
	5/9/2007	<2	-	<10	-	-	-
	5/9/2007	-	-	-	190	-	190
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	250	-	250
MW-106	11/5/2007	<0.2	-	<0.4	-	-	-
	11/5/2007	-	-	-	180	-	180
	2/5/2008	<2	-	<10	-	-	-
	2/5/2008	-	-	-	190	-	190
	1/15/2009	<2	-	<10	-	-	-
	1/15/2009	-	-	-	180	-	180
	4/22/2009	0.26	-	<10	-	-	-
	4/22/2009	-	-	-	120	-	-
	12/20/1995	-	-	-	790	-	-
	7/31/1996	-	-	-	600	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	12/17/1996	-	-	-	360	-	-
	1/20/1998	-	-	-	800	-	-
	8/20/1998	-	-	-	1000	-	-
	1/27/1999	-	-	-	1100	-	-
	7/19/1999	-	-	-	890	-	-
	1/14/2000	-	-	-	1000	-	-
	7/31/2000	-	-	-	<500	-	-
	2/6/2001	-	-	-	530	-	-
	7/24/2001	-	-	-	470	-	-
	5/7/2002	-	-	-	430	-	-
	9/24/2002	-	-	-	120	-	-
	7/1/2004	-	-	-	260	-	-
MW-106A	8/2/2006	<2	-	<10	-	-	-
	8/2/2006	-	-	-	310	-	310
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	82	-	82
	2/8/2007	-	0.61	-	-	-	-
	2/8/2007	<2	-	<10	-	-	-
	2/8/2007	-	-	-	270	-	270
	5/10/2007	<2	-	<10	-	-	-
	5/10/2007	-	-	-	210	-	210
	8/9/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	270	-	270
	11/7/2007	<0.2	-	<0.4	-	-	-
	11/7/2007	-	-	-	240	-	240
	2/5/2008	<2	-	<10	-	-	-
	2/5/2008	-	-	-	220	-	220
	1/19/2009	<2	-	<10	-	-	-
	1/19/2009	-	-	-	220	-	220
	4/23/2009	<2	-	<10	-	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	4/23/2009	-	-	-	290	-	-
	3/5/2010	<1.00	-	<1.0	-	-	-
	3/5/2010	-	-	-	590	-	-
	5/13/2010	<1.00	-	<1.0	-	-	-
	5/13/2010	-	-	-	460	-	-
	8/6/2010	-	-	-	450	-	-
	8/6/2010	<1.00	-	<1.0	-	-	-
MW-107	12/21/1995	-	-	-	<500	-	-
	7/31/1996	-	-	-	600	-	-
	12/17/1996	-	-	-	380	-	-
	1/20/1998	-	-	-	830	-	-
	8/20/1998	-	-	-	830	-	-
	1/27/1999	-	-	-	1100	-	-
	7/19/1999	-	-	-	820	-	-
MW-107	1/12/2000	-	-	-	1700	-	-
	7/31/2000	-	-	-	1700	-	-
	2/6/2001	-	-	-	2100	-	-
	7/26/2001	-	-	-	2000	-	-
	5/9/2002	-	-	-	2100	-	-
	9/25/2002	-	-	-	2200	-	-
MW-107A	8/2/2006	<2	-	<10	-	-	-
	8/2/2006	-	-	-	770	-	770
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	780	-	780
	2/8/2007	<2	-	<10	-	-	-
	2/8/2007	-	-	-	500	-	500
	2/8/2007	-	<0.48	-	-	-	-
	5/10/2007	<2	-	<10	-	-	-
	5/10/2007	-	-	-	670	-	670

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	8/9/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	1000	-	1000
	11/7/2007	<0.2	-	<0.4	-	-	-
	11/7/2007	-	-	-	1500	-	1500
	2/5/2008	<2	-	<10	-	-	-
	2/5/2008	-	-	-	2800	-	2800
	1/19/2009	<2	-	<10	-	-	-
	1/19/2009	-	-	-	1200	-	1200
	4/23/2009	<2	-	<10	-	-	-
	4/23/2009	-	-	-	2400	-	-
	3/5/2010	<1.00	-	<1.0	-	-	-
	3/5/2010	-	-	-	1300	-	-
	5/13/2010	-	-	-	1500	-	-
	5/13/2010	<1.00	-	<1.0	-	-	-
	8/6/2010	<1.00	-	<1.0	-	-	-
	8/6/2010	-	-	-	1300	-	-
MW-201	12/13/1995	-	-	-	9000	-	-
MW-201	7/31/1996	-	-	-	<100	-	-
	12/17/1996	-	-	-	3700	-	-
	1/21/1998	-	-	-	2600	-	-
	8/18/1998	-	-	-	2600	-	-
	7/19/1999	-	-	-	2800	-	-
	1/12/2000	-	-	-	5100	-	-
	8/4/2000	-	-	-	2900	-	-
	2/9/2001	-	-	-	2200	-	-
	7/26/2001	-	-	-	3200	-	-
	5/9/2002	-	-	-	1800	-	-
	9/26/2002	-	-	-	890	-	-
	6/30/2004	-	-	-	1700	-	-
	10/7/2005	<1	-	<25	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	10/7/2005	-	-	-	3400	-	3400
	2/15/2006	<0.3	-	<5	-	-	-
	2/15/2006	-	-	-	1890	-	1890
	8/2/2006	-	-	-	1000	-	1000
	8/2/2006	<2	-	<10	-	-	-
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	1100	-	1100
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	1100	-	1100
	2/7/2007	-	1.1	-	-	-	-
	5/9/2007	<2	-	<10	-	-	-
	5/9/2007	-	-	-	830	-	830
	8/8/2007	<2	-	<10	-	-	-
	8/8/2007	-	-	-	1300	-	1300
	11/6/2007	<0.2	-	<0.4	-	-	-
	11/6/2007	-	-	-	1500	-	1500
	2/7/2008	<2	-	<10	-	-	-
	2/7/2008	-	-	-	670	-	670
	1/20/2009	-	-	-	1400	-	1400
	1/20/2009	<2	-	<10	-	-	-
	4/28/2009	<2	-	<10	-	-	-
MW-201	4/28/2009	-	-	-	510	-	-
MW-202	12/1/1995	-	-	-	6500	-	-
	7/31/1996	-	-	-	4800	-	-
	12/17/1996	-	-	-	7400	-	-
	1/21/1998	-	-	-	1600	-	-
	8/18/1998	-	-	-	3100	-	-
	1/27/1999	-	-	-	2300	-	-
	7/19/1999	-	-	-	2300	-	-
	1/11/2000	-	-	-	2400	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	2/7/2000	-	-	-	1100	-	-
	8/2/2000	-	-	-	1400	-	-
	7/24/2001	-	-	-	1100	-	-
	5/8/2002	-	-	-	1400	-	-
	9/26/2002	-	-	-	1000	-	-
MW-203	12/13/1995	-	-	-	640	-	-
	7/31/1996	-	-	-	500	-	-
	12/17/1996	-	-	-	160	-	-
	1/20/1998	-	-	-	250	-	-
	8/20/1998	-	-	-	290	-	-
	1/27/1999	-	-	-	330	-	-
	7/19/1999	-	-	-	<500	-	-
	1/12/2000	-	-	-	<500	-	-
	7/31/2000	-	-	-	<500	-	-
	2/6/2001	-	-	-	<500	-	-
	7/24/2001	-	-	-	180	-	-
	5/8/2002	-	-	-	150	-	-
	9/25/2002	-	-	-	160	-	-
	7/1/2004	-	-	-	270	-	-
	8/2/2006	<2	-	<10	-	-	-
	8/2/2006	-	-	-	240	-	240
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	260	-	260
MW-203	2/8/2007	-	-	-	150	-	150
	2/8/2007	-	1.9	-	-	-	-
	2/8/2007	<2	-	<10	-	-	-
	5/10/2007	-	-	-	170	-	170
	5/10/2007	<2	-	<10	-	-	-
	8/9/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	270	-	270

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-204	11/7/2007	<0.2	-	<0.4	-	-	-
	11/7/2007	-	-	-	65	-	65
	2/5/2008	-	-	-	87	-	87
	2/5/2008	<2	-	<10	-	-	-
	1/19/2009	-	-	-	65	-	65
	1/19/2009	<2	-	<10	-	-	-
	4/23/2009	<2	-	<10	-	-	-
	4/23/2009	-	-	-	69	-	-
MW-204	12/13/1995	-	-	-	12000000	-	-
	8/1/1996	-	-	-	14000	-	-
	12/17/1996	-	-	-	2100	-	-
	1/21/1998	-	-	-	6000	-	-
	8/21/1998	-	-	-	11000	-	-
	1/28/1999	-	-	-	10000	-	-
	7/19/1999	-	-	-	1900	-	-
	1/11/2000	-	-	-	2100	-	-
	8/3/2000	-	-	-	1300	-	-
	2/8/2001	-	-	-	1200	-	-
	7/24/2001	-	-	-	1200	-	-
	5/9/2002	-	-	-	1400	-	-
	9/26/2002	-	-	-	560	-	-
	6/30/2004	-	-	-	260	-	-
	10/7/2005	-	-	-	340	-	340
	10/7/2005	<1	-	<5	-	-	-
MW-204	2/15/2006	<0.3	-	<5	-	-	-
	2/15/2006	-	-	-	111	-	111
	8/1/2006	<2	-	<10	-	-	-
	8/1/2006	-	-	-	260	-	260
	11/10/2006	<2	-	<10	-	-	-
	11/10/2006	-	-	-	81	-	81

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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	360	-	360
	2/7/2007	-	1.4	-	-	-	-
	11/6/2007	<0.2	-	<0.4	-	-	-
	11/6/2007	-	-	-	53	-	53
	2/4/2008	<2	-	<10	-	-	-
	2/4/2008	-	-	-	37	-	37
	4/23/2009	<2	-	<10	-	-	-
	4/23/2009	-	-	-	110	-	-
MW-205	12/13/1995	-	-	-	2100	-	-
	7/31/1996	-	-	-	<100	-	-
	12/16/1996	-	-	-	270	-	-
	1/20/1998	-	-	-	190	-	-
	8/21/1998	-	-	-	17	-	-
	1/26/1999	-	-	-	220	-	-
	7/19/1999	-	-	-	<500	-	-
	1/11/2000	-	-	-	790	-	-
	8/2/2000	-	-	-	<500	-	-
	2/7/2001	-	-	-	540	-	-
	7/26/2001	-	-	-	380	-	-
	5/8/2002	-	-	-	260	-	-
	9/25/2002	-	-	-	300	-	-
	6/30/2004	-	-	-	<200	-	-
	10/6/2005	<1	-	<5	-	-	-
	10/6/2005	-	-	-	850	-	850
	2/15/2006	<0.3	-	<5	-	-	-
	2/15/2006	-	-	-	411	-	411
	8/2/2006	<2	-	<10	-	-	-
	8/2/2006	-	-	-	560	-	560
MW-205	11/8/2006	<2	-	<10	-	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	11/8/2006	-	-	-	360	-	360
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	150	-	150
	2/7/2007	-	0.91	-	-	-	-
	5/9/2007	-	-	-	190	-	190
	5/9/2007	<2	-	<10	-	-	-
	8/8/2007	<2	-	<10	-	-	-
	8/8/2007	-	-	-	290	-	290
	11/6/2007	<0.2	-	<0.4	-	-	-
	11/6/2007	-	-	-	330	-	330
	2/5/2008	<2	-	<10	-	-	-
	2/5/2008	-	-	-	260	-	260
	1/19/2009	<2	-	<20	-	-	-
	1/19/2009	-	-	-	<380	-	<
	4/22/2009	<2	-	<10	-	-	-
	4/22/2009	-	-	-	<320	-	-
MW-206	12/13/1995	-	-	-	12000	-	-
	7/31/1996	-	-	-	33000	-	-
	12/18/1996	-	-	-	8200	-	-
	1/21/1998	-	-	-	13000	-	-
	8/20/1998	-	-	-	NS	NS	-
MW-501	12/13/1995	-	-	-	69000	-	-
	7/31/1996	-	-	-	18000	-	-
	12/18/1996	-	-	-	6800	-	-
	1/21/1998	-	-	-	950	-	-
	8/20/1998	-	-	-	NS	NS	-
	1/26/1999	-	-	-	NS	NS	-
MW-501A	7/19/1999	-	-	-	7500	-	-

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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-501A	1/13/2000	-	-	-	9200	-	-
	8/2/2000	-	-	-	7100	-	-
	2/7/2001	-	-	-	6600	-	-
	7/25/2001	-	-	-	5700	-	-
	5/8/2002	-	-	-	7000	-	-
	9/26/2002	-	-	-	6500	-	-
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	24000	-	24000
	11/10/2006	<2	-	<200	-	-	-
	11/10/2006	-	-	-	13000	-	13000
	2/12/2007	-	-	-	<13000	-	<
	2/12/2007	-	13	-	-	-	-
	2/12/2007	<2	-	<200	-	-	-
	5/11/2007	<2	-	<500	-	-	-
	5/11/2007	-	-	-	9100	-	9100
	8/10/2007	<2	-	<100	-	-	-
	8/10/2007	-	-	-	7100	-	7100
	11/8/2007	<0.2	-	<8	-	-	-
	11/8/2007	-	-	-	7700	-	7700
MW-502	12/13/1995	-	-	-	220000	-	-
	7/13/1996	-	-	-	110000	-	-
	12/18/1996	-	-	-	30000	-	-
	1/22/1998	-	-	-	24000	-	-
	8/19/1998	-	-	-	86000	-	-
	1/26/1999	-	-	-	120000	-	-
	7/19/1999	-	-	-	48000	-	-
	1/13/2000	-	-	-	25000	-	-
	8/2/2000	-	-	-	23000	-	-
	2/7/2001	-	-	-	18000	-	-
	7/25/2001	-	-	-	24000	-	-

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Summary of Emergent Chemicals and TPH Results
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-502	5/9/2002	-	-	-	25000	-	-
	9/26/2002	-	-	-	11000	-	-
	10/5/2005	<1	-	<500	-	-	-
	10/5/2005	-	-	-	15000	-	15000
	2/14/2006	<0.3	-	<50	-	-	-
	2/14/2006	-	-	-	47600	-	47600
	8/4/2006	<2	-	<10	-	-	-
	8/4/2006	-	-	-	20000	-	20000
	11/10/2006	<2	-	<200	-	-	-
	11/10/2006	-	-	-	35000	-	35000
	2/9/2007	<2	-	<2000	-	-	-
	2/9/2007	-	7.6	-	-	-	-
	2/9/2007	-	-	-	15000	-	15000
	5/11/2007	<2	-	<1000	-	-	-
	5/11/2007	-	-	-	25000	-	25000
	8/10/2007	<2	-	<500	-	-	-
	8/10/2007	-	-	-	<30000	-	<
	11/8/2007	-	-	-	19000	-	19000
	11/8/2007	<0.2	-	<80	-	-	-
MW-503	2/11/2008	<2	-	<1000	-	-	-
	2/11/2008	-	-	-	26000	-	26000
	12/13/1995	-	-	-	8200	-	-
	7/31/1996	-	-	-	5100	-	-
	12/18/1996	-	-	-	4600	-	-
MW-503B	1/21/1998	-	-	-	3100	-	-
	8/19/1998	-	-	-	960	-	-
	2/9/1999	-	-	-	10000	-	-
	7/19/1999	-	-	-	7800	-	-
	1/14/2000	-	-	-	14000	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-503B	8/4/2000	-	-	-	5600	-	-
	2/6/2001	-	-	-	5800	-	-
	7/25/2001	-	-	-	5700	-	-
	5/9/2002	-	-	-	4500	-	-
	9/26/2002	-	-	-	3300	-	-
	7/1/2004	-	-	-	5900	-	-
	10/5/2005	-	-	-	5400	-	5400
	10/5/2005	<1	-	<100	-	-	-
	2/14/2006	<0.3	-	<50	-	-	-
	2/14/2006	-	-	-	5450	-	5450
	8/4/2006	<2	-	22	-	-	-
	8/4/2006	-	-	-	4700	-	4700
	11/10/2006	<2	-	<20	-	-	-
	11/10/2006	-	-	-	3500	-	3500
	2/9/2007	-	0.76	-	-	-	-
	2/9/2007	<2	-	<10	-	-	-
	2/9/2007	-	-	-	1600	-	1600
	5/11/2007	-	-	-	1800	-	1800
	5/11/2007	<2	-	<10	-	-	-
	8/10/2007	<2	-	<10	-	-	-
	8/10/2007	-	-	-	1800	-	1800
	11/8/2007	<0.2	-	<1.6	-	-	-
	11/8/2007	-	-	-	2400	-	2400
	2/11/2008	<2	-	<40	-	-	-
	2/11/2008	-	-	-	2700	-	2700
	1/21/2009	<2	-	<50	-	-	-
	1/21/2009	-	-	-	6200	-	6200
	4/27/2009	-	-	-	4000	-	-
	4/27/2009	<2	-	<10	-	-	-
	3/8/2010	<1.00	-	<1.0	-	-	-
	3/8/2010	-	-	-	2800	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	5/17/2010	<1.00	-	<1.0	-	-	-
	5/17/2010	-	-	-	2900	-	-
	8/9/2010	-	-	-	3700	-	-
	8/9/2010	<1.00	-	<1.0	-	-	-
MW-504	12/13/1995	-	-	-	99000	-	-
	8/1/1996	-	-	-	80000	-	-
	12/18/1996	-	-	-	33000	-	-
	1/21/1998	-	-	-	30000	-	-
	8/20/1998	-	-	-	NS	NS	-
	1/28/1999	-	-	-	NS	NS	-
	7/19/1999	-	-	-	NS	NS	-
	1/10/2000	-	-	-	NS	NS	-
	7/31/2000	-	-	-	NS	NS	-
	2/6/2001	-	-	-	NS	NS	-
	7/24/2001	-	-	-	NS	NS	-
	5/6/2002	-	-	-	NS	NS	-
	9/23/2002	-	-	-	NS	NS	-
	2/16/2006	<0.3	-	<50	-	-	-
	2/16/2006	-	-	-	18000	-	18000
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	10000	-	10000
	11/10/2006	<2	-	<200	-	-	-
	11/10/2006	-	-	-	6200	-	6200
	2/9/2007	<2	-	<10	-	-	-
	2/9/2007	-	-	-	6100	-	6100
	2/9/2007	-	4.5	-	-	-	-
	5/11/2007	<2	-	<200	-	-	-
	5/11/2007	-	-	-	13000	-	13000
	8/10/2007	<2	-	<100	-	-	-
	8/10/2007	-	-	-	7100	-	7100

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	11/8/2007	<0.2	-	<4	-	-	-
	11/8/2007	-	-	-	4700	-	4700
	2/8/2008	-	-	-	6200	-	6200
	2/8/2008	<2	-	<100	-	-	-
MW-600	8/1/1990	-	-	-	380000	-	-
	2/20/1991	-	-	-	50.2	-	-
	12/13/1995	-	-	-	3500000	-	-
	8/1/1996	-	-	-	210000	-	-
	12/19/1996	-	-	-	87000	-	-
	1/22/1998	-	-	-	NS	NS	-
	8/20/1998	-	-	-	NS	NS	-
	1/28/1999	-	-	-	NS	NS	-
MW-600A	7/19/1999	-	-	-	NS	NS	-
	1/10/2000	-	-	-	NS	NS	-
	7/31/2000	-	-	-	NS	NS	-
	2/6/2001	-	-	-	NS	NS	-
	7/24/2001	-	-	-	NS	NS	-
	5/6/2002	-	-	-	NS	NS	-
	9/23/2002	-	-	-	NS	NS	-
MW-601	8/1/1990	-	-	-	360000	-	-
	2/20/1991	-	-	-	24	-	-
	12/13/1995	-	-	-	3500000	-	-
	8/1/1996	-	-	-	250000	-	-
	12/19/1996	-	-	-	70000	-	-
	1/22/1998	-	-	-	NS	NS	-
	8/20/1998	-	-	-	NS	NS	-
	1/28/1999	-	-	-	NS	NS	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-601A	7/19/1999	-	-	-	42000	-	-
	1/13/2000	-	-	-	48000	-	-
	8/3/2000	-	-	-	34000	-	-
	2/7/2001	-	-	-	35000	-	-
	7/24/2001	-	-	-	31000	-	-
	5/9/2002	-	-	-	28000	-	-
	9/26/2002	-	-	-	11000	-	-
MW-603	12/1/1995	-	-	-	<500	-	-
	7/30/1996	-	-	-	<100	-	-
	12/16/1996	-	-	-	<100	-	-
	1/22/1998	-	-	-	<100	-	-
	8/19/1998	-	-	-	<100	-	-
	1/27/1999	-	-	-	<100	-	-
	7/19/1999	-	-	-	<500	-	-
	1/11/2000	-	-	-	<500	-	-
	7/31/2000	-	-	-	<500	-	-
	2/7/2001	-	-	-	<500	-	-
	7/24/2001	-	-	-	190	-	-
MW-603	5/7/2002	-	-	-	210	-	-
	9/24/2002	-	-	-	<100	-	-
	7/1/2004	-	-	-	<200	-	-
	10/6/2005	<1	-	<5	-	-	-
	10/6/2005	-	-	-	150	-	150
	2/14/2006	<0.3	-	<5	-	-	-
	2/14/2006	-	-	-	245	-	245
	8/1/2006	<2	-	<10	-	-	-
	8/1/2006	-	-	-	190	-	190
	11/7/2006	<2	-	<10	-	-	-
	11/7/2006	-	-	-	150	-	150
	2/6/2007	-	-	-	120	-	120

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	2/6/2007	-	5.8	-	-	-	-
	2/6/2007	<2	-	<10	-	-	-
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	<110	-	<
	11/5/2007	<0.2	-	<0.4	-	-	-
	11/5/2007	-	-	-	120	-	120
	2/4/2008	-	-	-	120	-	120
	2/4/2008	<2	-	<10	-	-	-
	1/13/2009	<2	-	<10	-	-	-
	1/13/2009	-	-	-	75	-	75
	4/21/2009	<2	-	<10	-	-	-
	4/21/2009	-	-	-	59	-	-
MW-604	12/20/1995	-	-	-	1900	-	-
	7/30/1996	-	-	-	900	-	-
	12/17/1996	-	-	-	710	-	-
	1/22/1998	-	-	-	410	-	-
	8/19/1998	-	-	-	370	-	-
	1/27/1999	-	-	-	230	-	-
	7/19/1999	-	-	-	500	-	-
MW-604	1/11/2000	-	-	-	750	-	-
	8/3/2000	-	-	-	560	-	-
	2/7/2001	-	-	-	1100	-	-
	7/24/2001	-	-	-	1100	-	-
	5/8/2002	-	-	-	1400	-	-
	9/25/2002	-	-	-	970	-	-
	11/8/2006	<2	-	<10	-	-	-
	11/8/2006	-	-	-	330	-	330
	2/7/2007	<2	-	<10	-	-	-
	2/7/2007	-	-	-	540	-	540
	2/7/2007	-	<0.49	-	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	5/8/2007	<2	-	<10	-	-	-
	5/8/2007	-	-	-	480	-	480
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	290	-	290
	11/5/2007	-	-	-	500	-	500
	11/5/2007	<0.2	-	<0.4	-	-	-
MW-605	12/20/1995	-	-	-	<1000	-	-
	7/31/1996	-	-	-	<100	-	-
	12/16/1996	-	-	-	<100	-	-
	1/22/1998	-	-	-	<100	-	-
	8/19/1998	-	-	-	<100	-	-
	1/28/1999	-	-	-	<100	-	-
	7/19/1999	-	-	-	<500	-	-
	1/11/2000	-	-	-	<600	-	-
	8/2/2000	-	-	-	<700	-	-
	2/7/2001	-	-	-	<800	-	-
	7/24/2001	-	-	-	<100	-	-
	5/7/2002	-	-	-	<200	-	-
	9/24/2002	-	-	-	<300	-	-
	6/30/2004	-	-	-	<200	-	-
	10/5/2005	<1	-	<5	-	-	-
	10/5/2005	-	-	-	<100	-	<
MW-605	2/14/2006	-	-	-	53	-	53
	2/14/2006	0.3	-	<5	-	-	-
	8/1/2006	<2	-	<10	-	-	-
	8/1/2006	-	-	-	<50	-	<
	11/7/2006	<2	-	<10	-	-	-
	11/7/2006	-	-	-	<50	-	<
	2/6/2007	-	-	-	<50	-	<
	2/6/2007	-	1.5	-	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	2/6/2007	<2	-	<10	-	-	-
	5/8/2007	<2	-	<10	-	-	-
	5/8/2007	-	-	-	38	-	38
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	30	-	30
	11/5/2007	<0.2	-	<0.4	-	-	-
	11/5/2007	-	-	-	<30	-	<
	2/4/2008	-	-	-	<50	-	<
	2/4/2008	<2	-	<10	-	-	-
MW-606	12/19/1995	-	-	-	<500	-	-
	7/31/1996	-	-	-	<100	-	-
	12/16/1996	-	-	-	<100	-	-
	1/22/1998	-	-	-	<100	-	-
	8/19/1998	-	-	-	170	-	-
	1/28/1999	-	-	-	<100	-	-
	7/19/1999	-	-	-	<500	-	-
	1/11/2000	-	-	-	<500	-	-
	8/2/2000	-	-	-	<500	-	-
	2/7/2001	-	-	-	<500	-	-
	7/24/2001	-	-	-	<100	-	-
	5/7/2002	-	-	-	<100	<100	-
	9/24/2002	-	-	-	<100	<100	-
	6/30/2004	-	-	-	<200	-	-
	10/5/2005	2	-	<5	-	-	-
	10/5/2005	-	-	-	240	-	240
MW-606	2/14/2006	3.5	-	<5	-	-	-
	2/14/2006	-	-	-	<50	-	<
	8/1/2006	-	-	-	<50	-	<
	8/1/2006	3	-	<10	-	-	-
	11/7/2006	2.7	-	<10	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	11/7/2006	-	-	-	<50	-	<
	2/6/2007	3.9	-	<7	-	-	-
	2/6/2007	-	-	-	<50	-	<
	2/6/2007	-	<0.48	-	-	-	-
	5/8/2007	3.6	-	<10	-	-	-
	5/8/2007	-	-	-	<50	-	<
	8/7/2007	2.4	-	<10	-	-	-
	8/7/2007	-	-	-	<50	-	<
	11/5/2007	0.97	-	<0.4	-	-	-
	11/5/2007	-	-	-	<30	-	<
	2/4/2008	0.24	-	<10	-	-	-
	2/4/2008	-	-	-	<50	-	<
	1/13/2009	-	-	-	<50	-	<
	1/13/2009	<2	-	<10	-	-	-
	4/21/2009	<2	-	<10	-	-	-
	4/21/2009	-	-	-	<50	-	-
MW-607	12/19/1995	-	-	-	1200	-	-
	7/31/1996	-	-	-	900	-	-
	12/17/1996	-	-	-	1000	-	-
	1/22/1998	-	-	-	1200	-	-
	8/19/1998	-	-	-	260	-	-
	1/27/1999	-	-	-	1760	-	-
	7/19/1999	-	-	-	1200	-	-
	1/11/2000	-	-	-	1200	-	-
	7/31/2000	-	-	-	540	-	-
	2/7/2001	-	-	-	50	-	-
	7/24/2001	-	-	-	590	-	-
	5/7/2002	-	-	-	490	-	-
MW-607	9/24/2002	-	-	-	110	-	-
	6/30/2004	-	-	-	540	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	10/5/2005	-	-	-	760	-	760
	10/5/2005	<1	-	<5	-	-	-
	2/14/2006	<0.3	-	<5	-	-	-
	2/14/2006	-	-	-	373	-	373
	8/1/2006	<2	-	<10	-	-	-
	8/1/2006	-	-	-	350	-	350
	11/7/2006	<2	-	<10	-	-	-
	11/7/2006	-	-	-	210	-	210
	2/6/2007	-	2.8	-	-	-	-
	2/6/2007	<2	-	<10	-	-	-
	2/6/2007	-	-	-	590	-	590
	5/8/2007	-	-	-	330	-	330
	5/8/2007	<2	-	<10	-	-	-
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	320	-	320
	11/5/2007	<0.2	-	<0.4	-	-	-
	11/5/2007	-	-	-	440	-	440
	2/4/2008	<2	-	<10	-	-	-
	2/4/2008	-	-	-	790	-	790
MW-A	2/20/1991	-	-	-	49.8	-	-
MW-B	2/25/1991	-	-	-	<1000	-	-
MW-C	3/31/1995	-	-	-	60	-	-
	7/11/1995	-	-	-	<50	-	-
	10/5/1995	-	-	-	<500	-	-
	12/8/1995	-	-	-	<500	-	-
	3/7/1996	-	-	-	<500	-	-
	6/17/1996	-	-	-	<500	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
MW-D	3/31/1995	-	-	-	<50	-	-
MW-D	7/11/1995	-	-	-	<50	-	-
	10/5/1995	-	-	-	<500	-	-
	12/8/1995	-	-	-	<500	-	-
	3/7/1996	-	-	-	<500	-	-
	6/17/1996	-	-	-	<500	-	-
MW-E	3/31/1995	-	-	-	60	-	-
	7/11/1995	-	-	-	<50	-	-
	10/5/1995	-	-	-	<500	-	-
	12/8/1995	-	-	-	<500	-	-
	3/7/1996	-	-	-	<500	-	-
	6/17/1996	-	-	-	<500	-	-
MW-I	2/19/1991	-	-	-	11000	-	-
W-1	11/1/1989	-	-	-	-	<1000	-
	12/18/1996	-	-	-	800	-	-
	1/14/1998	-	-	-	1100	-	-
	8/20/1998	-	-	-	1200	-	-
	1/29/1999	-	-	-	1400	-	-
	7/19/1999	-	-	-	1500	-	-
	8/3/2000	-	-	-	880	-	-
	2/8/2001	-	-	-	<500	-	-
	7/26/2001	-	-	-	620	-	-
	5/8/2002	-	-	-	280	-	-
	9/25/2002	-	-	-	210	-	-
	7/1/2004	-	-	-	460	-	-
	10/6/2005	-	-	-	310	-	310
	10/6/2005	<1	-	<5	-	-	-
	2/15/2006	<0.3	-	<5	-	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-1	2/15/2006	-	-	-	266	-	266
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	1100	-	1100
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	470	-	470
	2/8/2007	-	0.95	-	-	-	-
	2/8/2007	<2	-	<10	-	-	-
	2/8/2007	-	-	-	500	-	500
	5/10/2007	-	-	-	890	-	890
	5/10/2007	<2	-	<10	-	-	-
	8/9/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	1100	-	1100
	11/7/2007	<0.2	-	<0.4	-	-	-
	11/7/2007	-	-	-	1200	-	1200
	2/7/2008	<2	-	<10	-	-	-
	2/7/2008	-	-	-	1000	-	1000
	1/20/2009	<2	-	<10	-	-	-
	1/20/2009	-	-	-	230	-	230
W-10	4/24/2009	-	-	-	180	-	-
	4/24/2009	<2	-	<10	-	-	-
	3/5/2010	<1.00	-	<1.0	-	-	-
	3/5/2010	-	-	-	270	-	-
	5/13/2010	<1.00	-	<1.0	-	-	-
	5/13/2010	-	-	-	260	-	-
	8/6/2010	-	-	-	260	-	-
	8/6/2010	<1.00	-	<1.0	-	-	-
W-10	11/8/2006	-	-	-	26000	-	26000
	11/8/2006	<2	-	<200	-	-	-
	2/9/2007	<2	-	<1000	-	-	-
	2/9/2007	-	-	-	28000	-	28000

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-10	2/9/2007	-	7.7	-	-	-	-
	5/11/2007	<2	-	<50	-	-	-
	5/11/2007	-	-	-	7900	-	7900
	8/9/2007	-	-	-	5400	-	5400
	8/9/2007	<2	-	<50	-	-	-
	11/9/2007	<0.2	-	<40	-	-	-
	11/9/2007	-	-	-	<12000	-	<
	2/8/2008	<2	-	<1000	-	-	-
	2/8/2008	-	-	-	<28000	-	<
	1/21/2009	<2	-	<1000	-	-	-
	1/21/2009	-	-	-	20000	-	20000
	4/27/2009	<2	-	<1000	-	-	-
	4/27/2009	-	-	-	16000	-	-
	3/8/2010	<1.00	-	<500	-	-	-
	3/8/2010	-	-	-	8600	-	-
	5/17/2010	<1.00	-	<1.0	-	-	-
	5/17/2010	-	-	-	9500	-	-
	8/9/2010	<1.00	-	<1.0	-	-	-
	8/9/2010	-	-	-	7900	-	-
W-11	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	5200	-	5200
	2/9/2007	-	-	-	8000	-	8000
	2/9/2007	-	1	-	-	-	-
	2/9/2007	<2	-	<20	-	-	-
	5/9/2007	-	-	-	540	-	540
	5/9/2007	<2	-	<10	-	-	-
	8/8/2007	<2	-	<10	-	-	-
	8/8/2007	-	-	-	<1100	-	<
	11/8/2007	<0.2	-	<0.4	-	-	-
	11/8/2007	-	-	-	460	-	460

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-12	11/8/2006	-	-	-	1400	-	1400
	11/8/2006	<2	-	<10	-	-	-
	2/7/2007	-	1	-	-	-	-
	2/7/2007	-	-	-	4800	-	4800
	2/7/2007	<2	-	<10	-	-	-
	5/9/2007	<2	-	<10	-	-	-
	5/9/2007	-	-	-	220	-	220
	8/8/2007	<2	-	<10	-	-	-
	8/8/2007	-	-	-	1100	-	1100
	11/6/2007	-	-	-	1500	-	1500
W-12	11/6/2007	<0.2	-	<0.4	-	-	-
	2/8/2008	<2	-	<10	-	-	-
	2/8/2008	-	-	-	410	-	410
	1/20/2009	<2	-	<10	-	-	-
	1/20/2009	-	-	-	620	-	620
	4/22/2009	0.74	-	<10	-	-	-
	4/22/2009	-	-	-	1100	-	-
	3/4/2010	<1.00	-	<1.0	-	-	-
	3/4/2010	-	-	-	400	-	-
	5/12/2010	<1.00	-	<1.0	-	-	-
	5/12/2010	-	-	-	610	-	-
	8/5/2010	<1.00	-	<1.0	-	-	-
	8/5/2010	-	-	-	650	-	-
	2/12/2008	<2	-	<10	-	-	-
	2/12/2008	-	-	-	42	-	42
W-14A	1/13/2009	<2	-	<10	-	-	-
	1/13/2009	-	-	-	<50	-	<
	4/21/2009	-	-	-	54	-	-
	4/21/2009	<2	-	<10	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	3/1/2010	<1.00	-	<1.0	-	-	-
	3/1/2010	-	-	-	<50	-	-
	5/10/2010	<1.00	-	<1.0	-	-	-
	5/10/2010	-	-	-	<50	-	-
	8/2/2010	<1.00	-	<1.0	-	-	-
	8/2/2010	-	-	-	<50	-	-
W-14B	2/12/2008	<2	-	<10	-	-	-
	2/12/2008	-	-	-	<50	-	<
	1/13/2009	<2	-	<10	-	-	-
	1/13/2009	-	-	-	170	-	170
	4/21/2009	1.3	-	<10	-	-	-
	4/21/2009	-	-	-	65	-	-
W-14B	3/1/2010	<1.00	-	<1.0	-	-	-
	3/1/2010	-	-	-	99	-	-
	5/10/2010	<1.00	-	<1.0	-	-	-
	5/10/2010	-	-	-	99	-	-
	8/2/2010	-	-	-	55	-	-
	8/2/2010	<1.00	-	<1.0	-	-	-
W-14C	2/12/2008	<2	-	<10	-	-	-
	2/12/2008	-	-	-	260	-	260
	1/14/2009	<2	-	<10	-	-	-
	1/14/2009	-	-	-	120	-	120
	4/21/2009	<2	-	<10	-	-	-
	4/21/2009	-	-	-	67	-	-
	3/1/2010	<1.00	-	<1.0	-	-	-
	3/1/2010	-	-	-	300	-	-
	5/10/2010	<1.00	-	<1.0	-	-	-
	5/10/2010	-	-	-	120	-	-
	8/2/2010	<1.00	-	<1.0	-	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	8/2/2010	-	-	-	77	-	-
W-15A	2/11/2008	<2	-	<100	-	-	-
	2/11/2008	-	-	-	2700	-	2700
	1/14/2009	<2	-	<10	-	-	-
	1/14/2009	-	-	-	230	-	230
	4/24/2009	<2	-	<20	-	-	-
	4/24/2009	-	-	-	530	-	-
	3/2/2010	-	-	-	240	-	-
	3/2/2010	<1.00	-	<1.0	-	-	-
	5/10/2010	<1.00	-	<1.0	-	-	-
	5/10/2010	-	-	-	260	-	-
W-15B	8/2/2010	<1.00	-	<1.0	-	-	-
	8/2/2010	-	-	-	310	-	-
	2/11/2008	-	-	-	<1600	-	<
	2/11/2008	<2	-	<100	-	-	-
	1/14/2009	-	-	-	340	-	340
	1/14/2009	<2	-	<10	-	-	-
	4/24/2009	<2	-	<10	-	-	-
	4/24/2009	-	-	-	63	-	-
	3/2/2010	<1.00	-	<1.0	-	-	-
	3/2/2010	-	-	-	220	-	-
W-15C	5/11/2010	<1.00	-	<1.0	-	-	-
	5/11/2010	-	-	-	230	-	-
	8/3/2010	<1.00	-	<1.0	-	-	-
	8/3/2010	-	-	-	250	-	-
	2/11/2008	-	-	-	<50	-	<
	2/11/2008	<2	-	<10	-	-	-
	1/15/2009	<2	-	<10	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	1/15/2009	-	-	-	29	-	29
	4/24/2009	<2	-	<10	-	-	-
	4/24/2009	-	-	-	43	-	-
	3/2/2010	-	-	-	<50	-	-
	3/2/2010	<1.00	-	<1.0	-	-	-
	5/11/2010	-	-	-	<50	-	-
	5/11/2010	<1.00	-	<1.0	-	-	-
	8/3/2010	<1.00	-	<1.0	-	-	-
	8/3/2010	-	-	-	<50	-	-
W-16A	11/9/2007	<0.2	-	<0.4	-	-	-
	11/9/2007	-	-	-	260	-	260
	2/6/2008	<2	-	<10	-	-	-
	2/6/2008	-	-	-	310	-	310
	1/21/2009	<2	-	<10	-	-	-
	1/21/2009	-	-	-	290	-	290
	4/27/2009	-	-	-	410	-	-
	4/27/2009	<2	-	<10	-	-	-
	3/5/2010	<1.00	-	<1.0	-	-	-
	3/5/2010	-	-	-	220	-	-
W-16A	5/14/2010	<1.00	-	<1.0	-	-	-
	5/14/2010	-	-	-	110	-	-
	8/9/2010	-	-	-	120	-	-
	8/9/2010	<1.00	-	<1.0	-	-	-
W-16B	11/9/2007	-	-	-	37	-	37
	11/9/2007	<0.2	-	<0.4	-	-	-
	2/6/2008	<2	-	<10	-	-	-
	2/6/2008	-	-	-	400	-	400
	1/21/2009	<2	-	<10	-	-	-
	1/21/2009	-	-	-	73	-	73

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Summary of Emergent Chemicals and TPH Results
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	4/27/2009	<2	-	<100	-	-	-
	4/27/2009	-	-	-	47	-	-
	3/8/2010	<1.00	-	<1.0	-	-	-
	3/8/2010	-	-	-	73	-	-
	5/14/2010	-	-	-	60	-	-
	5/14/2010	<1.00	-	<1.0	-	-	-
	8/9/2010	<1.00	-	<1.0	-	-	-
	8/9/2010	-	-	-	<50	-	-
W-16C	11/9/2007	<0.2	-	<0.4	-	-	-
	11/9/2007	-	-	-	170	-	170
	2/6/2008	-	-	-	360	-	360
	2/6/2008	<2	-	<10	-	-	-
	1/21/2009	-	-	-	510	-	510
	1/21/2009	<2	-	<10	-	-	-
	4/28/2009	<2	-	<10	-	-	-
	4/28/2009	-	-	-	170	-	-
	3/8/2010	<1.00	-	<1.0	-	-	-
	3/8/2010	-	-	-	95	-	-
	5/14/2010	-	-	-	63	-	-
	5/14/2010	<1.00	-	<1.0	-	-	-
	8/9/2010	<1.00	-	<1.0	-	-	-
W-16C	8/9/2010	-	-	-	<50	-	-
	2/14/2008	<2	-	<10	-	-	-
	2/14/2008	-	-	-	100	-	100
	1/16/2009	<2	-	<10	-	-	-
	1/16/2009	-	-	-	78	-	78
	4/22/2009	<2	-	<10	-	-	-
	4/22/2009	-	-	-	180	-	-
	3/3/2010	<1.00	-	<1.0	-	-	-

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Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	3/3/2010	-	-	-	51	-	-
	5/12/2010	<1.00	-	<1.0	-	-	-
	5/12/2010	-	-	-	110	-	-
	8/4/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	-	-	-	56	-	-
W-17B	2/14/2008	<2	-	<10	-	-	-
	2/14/2008	-	-	-	39	-	39
	1/16/2009	-	-	-	38	-	38
	1/16/2009	<2	-	<10	-	-	-
	4/22/2009	<2	-	<10	-	-	-
	4/22/2009	-	-	-	<50	-	-
	3/3/2010	<1.00	-	<1.0	-	-	-
	3/3/2010	-	-	-	<50	-	-
	5/12/2010	<1.00	-	<1.0	-	-	-
	5/12/2010	-	-	-	54	-	-
	8/5/2010	<1.00	-	<1.0	-	-	-
	8/5/2010	-	-	-	<50	-	-
W-17C	2/14/2008	<2	-	<10	-	-	-
	2/14/2008	-	-	-	36	-	36
	1/16/2009	<2	-	<10	-	-	-
	1/16/2009	-	-	-	29	-	29
	4/23/2009	<2	-	<10	-	-	-
	4/23/2009	-	-	-	<50	-	-
W-17C	3/4/2010	<1.00	-	<1.0	-	-	-
	3/4/2010	-	-	-	<50	-	-
	5/12/2010	-	-	-	<50	-	-
	5/12/2010	<1.00	-	<1.0	-	-	-
	8/5/2010	<1.00	-	<1.0	-	-	-
	8/5/2010	-	-	-	<50	-	-

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Summary of Emergent Chemicals and TPH Results
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-2	11/1/1989	-	-	-	-	<1000	-
	12/18/1996	-	-	-	560	-	-
	1/14/1998	-	-	-	700	-	-
	8/20/1998	-	-	-	NS	NS	-
W-3	11/1/1989	-	-	-	-	<1000	-
	12/18/1996	-	-	-	1300	-	-
	1/13/1998	-	-	-	2200	-	-
	8/20/1998	-	-	-	NS	NS	-
W-3A	1/13/1998	-	-	-	4300000	-	-
	8/20/1998	-	-	-	1100	-	-
	1/28/1999	-	-	-	690	-	-
	7/19/1999	-	-	-	5400	-	-
	1/13/2000	-	-	-	14000	-	-
	8/4/2000	-	-	-	3400	-	-
	2/8/2001	-	-	-	2700	-	-
	7/26/2001	-	-	-	3400	-	-
	5/6/2002	-	-	-	NS	NS	-
	9/25/2002	-	-	-	NS	NS	-
	2/16/2006	<0.3	-	<5	-	-	-
	2/16/2006	-	-	-	306	-	306
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	39000	-	39000
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	8100	-	8100
	2/8/2007	<2	-	<10	-	-	-
W-3A	2/8/2007	-	1.9	-	-	-	-
	2/8/2007	-	-	-	1400	-	1400
	5/10/2007	<2	-	<10	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
	5/10/2007	-	-	-	14000	-	14000
	8/9/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	1900	-	1900
	11/7/2007	-	-	-	1500	-	1500
	11/7/2007	<0.2	-	<0.4	-	-	-
	2/7/2008	<2	-	<10	-	-	-
	2/7/2008	-	-	-	180	-	180
W-4	12/18/1996	-	-	-	420	-	-
	1/14/1998	-	-	-	920	-	-
	8/20/1998	-	-	-	500	-	-
	1/29/1999	-	-	-	460	-	-
	7/19/1999	-	-	-	710	-	-
	1/13/2000	-	-	-	660	-	-
	8/3/2000	-	-	-	<500	-	-
	2/8/2001	-	-	-	<500	-	-
	7/26/2001	-	-	-	320	-	-
	5/8/2002	-	-	-	250	-	-
	9/25/2002	-	-	-	290	-	-
	7/1/2004	-	-	-	350	-	-
	10/6/2005	<1	-	<5	-	-	-
	10/6/2005	-	-	-	350	-	350
	2/15/2006	-	-	-	501	-	501
	2/15/2006	<0.3	-	<5	-	-	-
	8/3/2006	<2	-	<10	-	-	-
	8/3/2006	-	-	-	2800	-	2800
	11/9/2006	<2	-	<10	-	-	-
	11/9/2006	-	-	-	230	-	230
	2/8/2007	<2	-	<10	-	-	-
	2/8/2007	-	-	-	200	-	200
	2/8/2007	-	2.1	-	-	-	-

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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-4	5/10/2007	-	-	-	170	-	170
	5/10/2007	<2	-	<10	-	-	-
	8/9/2007	-	-	-	280	-	280
	8/9/2007	<2	-	<10	-	-	-
	11/7/2007	<0.2	-	<0.4	-	-	-
	11/7/2007	-	-	-	180	-	180
	2/7/2008	<2	-	<10	-	-	-
	2/7/2008	-	-	-	250	-	250
	1/19/2009	<2	-	<10	-	-	-
	1/19/2009	-	-	-	140	-	140
	4/27/2009	<2	-	<10	-	-	-
	4/27/2009	-	-	-	92	-	-
	3/5/2010	-	-	-	600	-	-
	3/5/2010	<1.00	-	<1.0	-	-	-
	5/13/2010	<1.00	-	<1.0	-	-	-
	5/13/2010	-	-	-	700	-	-
	8/6/2010	<1.00	-	<1.0	-	-	-
	8/6/2010	-	-	-	570	-	-
W-7	8/4/2000	-	-	-	<500	-	-
	2/8/2001	-	-	-	<500	-	-
	7/26/2001	-	-	-	<100	-	-
	5/7/2002	-	-	-	<100	-	-
	9/24/2002	-	-	-	<100	-	-
	10/7/2005	<1	-	<5	-	-	-
	10/7/2005	-	-	-	<100	-	<
	2/16/2006	<0.3	-	<5	-	-	-
	2/16/2006	-	-	-	60.9	-	60.9
	8/4/2006	-	-	-	<50	-	<
	8/4/2006	<2	-	<10	-	-	-
	11/10/2006	<2	-	<10	-	-	-

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Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-7	11/10/2006	-	-	-	<50	-	<
	2/9/2007	<2	-	<10	-	-	-
	2/9/2007	-	-	-	<50	-	<
	2/9/2007	-	<0.48	-	-	-	-
	5/8/2007	<2	-	<10	-	-	-
	5/8/2007	-	-	-	31	-	31
	8/10/2007	-	-	-	<50	-	<
	8/10/2007	<2	-	<10	-	-	-
	11/6/2007	-	-	-	<30	-	<
	11/6/2007	<0.2	-	<0.4	-	-	-
	2/4/2008	<2	-	<10	-	-	-
	2/4/2008	-	-	-	<50	-	<
	1/13/2009	<2	-	<10	-	-	-
	1/13/2009	-	-	-	<50	-	<
	4/21/2009	0.69	-	<10	-	-	-
	4/21/2009	-	-	-	<50	-	-
	3/4/2010	<1.00	-	<1.0	-	-	-
	3/4/2010	-	-	-	65	-	-
W-8	5/17/2010	-	-	-	60	-	-
	5/17/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	-	-	-	<50	-	-
	8/4/2000	-	-	-	<500	-	-
	2/6/2001	-	-	-	NS	NS	-
	7/26/2001	-	-	-	180	-	-
	5/7/2002	-	-	-	180	-	-
W-8	9/24/2002	-	-	-	<100	-	-
	7/1/2004	-	-	-	390	-	-
	10/6/2005	<1	-	<5	-	-	-
	10/6/2005	-	-	-	220	-	220

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Former CENCO Refinery
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Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-8	2/16/2006	<0.3	-	<5	-	-	-
	2/16/2006	-	-	-	192	-	192
	8/4/2006	<2	-	<10	-	-	-
	8/4/2006	-	-	-	130	-	130
	11/10/2006	<2	-	<10	-	-	-
	11/10/2006	-	-	-	210	-	210
	2/9/2007	-	-	-	130	-	130
	2/9/2007	-	<0.51	-	-	-	-
	2/9/2007	<2	-	<10	-	-	-
	5/8/2007	<2	-	<10	-	-	-
	5/8/2007	-	-	-	110	-	110
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	170	-	170
	11/6/2007	<0.2	-	<0.4	-	-	-
	11/6/2007	-	-	-	160	-	160
	2/4/2008	<2000	-	<10	-	-	-
	2/4/2008	-	-	-	160	-	160
	1/13/2009	<2	-	<10	-	-	-
	1/13/2009	-	-	-	120	-	120
W-9	4/21/2009	0.42	-	<10	-	-	-
	4/21/2009	-	-	-	150	-	-
	3/4/2010	-	-	-	220	-	-
	3/4/2010	<1.00	-	<1.0	-	-	-
	5/17/2010	<1.00	-	<1.0	-	-	-
	5/17/2010	-	-	-	210	-	-
	8/4/2010	<1.00	-	<1.0	-	-	-
	8/4/2010	-	-	-	110	-	-
	11/7/2006	<2	-	<10	-	-	-
	11/7/2006	-	-	-	<50	-	<
	2/6/2007	-	0.72	-	-	-	-

TABLE III
Summary of Emergent Chemicals and TPH Results
Former CENCO Refinery
Santa Fe Springs, CA

Well ID	Date	HEX CHROME	1,4-Dioxane	1,2,3-TCP	TPH-g	TPH-d	TPH
W-9	2/6/2007	<2	-	<10	-	-	-
	2/6/2007	-	-	-	67	-	67
	5/9/2007	-	-	-	50	-	50
	5/9/2007	<2	-	<10	-	-	-
	8/7/2007	<2	-	<10	-	-	-
	8/7/2007	-	-	-	38	-	38
	11/6/2007	<0.2	-	<0.4	-	-	-
	11/6/2007	-	-	-	<30	-	<
	2/5/2008	<2	-	<10	-	-	-
	2/5/2008	-	-	-	<50	-	<
	1/15/2009	<2	-	<10	-	-	-
	1/15/2009	-	-	-	46	-	46
	4/23/2009	-	-	-	36	-	-
	4/23/2009	<2	-	<10	-	-	-
	3/3/2010	<1.00	-	<1.0	-	-	-
	3/3/2010	-	-	-	<50	-	-
	5/12/2010	<1.00	-	<1.0	-	-	-
	5/12/2010	-	-	-	80	-	-
	8/4/2010	-	-	-	67	-	-
	8/4/2010	<1.00	-	<1.0	-	-	-

NOTES:

HEX CHROME = Hexavalent Chromium

1,2,3 TCP - 1,2,3 Trichloropropane

1,4 DIOX - 1,4 Dioxane

TPH-d - Total Petroleum Hydrocarbons Diesel Range

TPH-g - Total Petroleum Hydrocarbons Gasoline Range

TPH - Total Petroleum Hydrocarbons

< - Not Detected above the laboratory detection limit

NS - Not Sampled

-- Not Tested

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
EW-1	11/1/1989	<5	<5	-	9.8	<5	<5	-	-	29	730	16	1400	1000	-	-	<5	<5	-	<5	-	-	-	-
	3/1/1990	<25	<25	-	<50	<25	<25	-	-	<100	1800	300	1800	620	-	-	<50	<25	-	<100	-	-	-	-
	4/1/1990	<1	<10	110	20	<10	<10	-	-	<20	1300	290	1600	2000	-	-	<10	<10	-	<5	-	-	-	-
	8/21/1998	<50	<50	<50	<50	<50	<50	<50	<50	<100	230	<50	630	170	<50	170	<50	<50	200	<50	150	-	<50	-
	1/28/1999	<50	<50	<50	<50	<50	<50	<50	<50	<100	110	<50	540	170	<50	150	<50	<50	170	<50	130	-	<50	-
	7/19/1999	<25	<25	<25	<25	<25	<13	25	<25	<13	110	<25	1000	340	<25	160	<25	<25	200	<250	<250	-	<25	-
	1/13/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/31/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	2/6/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/26/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	9/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	11/10/2006	<4	<4	6.3	8.4	<10	<4	<4	6.9	<10	65	<4	68	17	34	110	<4	<4	120	<10	42	<10	<10	<100
	2/9/2007	<2	<2	6.5	7.8	<5	<2	2.3	5.1	<5	41	<2	39	10	27	80	<2	<2	100	<5	26	<5	<5	<50
	5/10/2007	<4	0.92	6.9	6.9	<10	<4	1.4	2.6	<10	19	1.5	15	4.1	25	110	<4	<4	130	<10	10	<10	<10	17
	8/10/2007	<2	1.8	11	9.9	<5	<2	1.4	3.2	<5	36	2.3	14	5.3	46	170	<2	0.35	210	<5	20	<5	<5	15
	2/8/2008	<4	2.6	9.8	14	<10	<4	<4	0.48	2.6	73	1.9	4.9	<8	34	120	<4	0.54	140	<10	5.3	<10	<10	31
MW-105	12/21/1995	16	46	9.4	-	13	3.3	-	-	11	1.7	0.81	3.7	-	-	-	4.5	-	-	-	-	-	-	-
	7/31/1996	24	33	8.4	<0.3	20	1.4	-	-	<0.3	91	1.8	2	1.8	-	-	-	12	-	<0.3	-	-	<10	-
	12/16/1996	80	110	10	<5	50	<5	<5	<5	<10	14	<5	<5	<10	<5	<5	-	<5	<5	<5	<5	<5	<2	-
	1/20/1998	150	210	25	<5	140	<5	<5	<5	<10	21	<5	<5	<5	<5	<5	<5	<5	22	<5	<5	<5	<10	-
	8/18/1998	96.7	162	25.3	<5	108	<5	<5	<5	<10	53.6	<5	<5	<5	<5	<5	<5	<5	15.4	<5	<5	<10	-	-
	1/25/1999	125	187	22	<5	117	<5	<5	<5	<5	6.43	<5	<5	<5	<5	<5	<5	<5	14	<5	<5	<10	-	<5
	7/19/1999	78	280	29	15	130	3.4	<1	<1	<0.5	4.8	<1	<1	<1	<1	<1	<1	<1	16	<1	<10	<10	-	<1
	1/10/2000	<5	130	40	62	100	4	<5	<5	<2.5	61	<5	<5	<5	<5	<5	<5	<5	20	<5	<50	<50	-	<5
	7/31/2000	<5	160	52	59	62	9.5	<5	<5	<5	10	52	<5	<5	<5	<5	<5	<5	14	<5	<50	<9.5	-	<5
	2/6/2001	<5	47	33	21	32	<2.5	<5	<5	7.9	<2.5	<5	<5	<5	<5	<5	<5	<5	12	<5	<50	<50	-	<5
	7/24/2001	<1	36	18	11	17	1.5	-	<1	<5	1	<1	<1	<1	<1	<1	<1	<1	9	<1	<10	-	<1	-
	5/7/2002	<2	38	14	6.8	10	<0.5	<1	<1	<1	3.9	1.1	<1	<1	<1	<1	<1	<1	4.4	<1	<10	<10	-	<1
	9/24/2002	<3	43	25	6.4	10	1.4	<1	<1	14	1.4	<1	<1	<2	<1	<1	<1	<1	4.9	<1	<10	<10	-	<1
	6/30/2004	22	76	15	5.4	18	<5	<5	<5	7.2	<5	<5	<5	<1	<5	<5	<5	11	<5	<5	<5	<5	<100	
	10/6/2005	6.5	41	10	3.9	9.6	0.58	<1	<1	1.4	<0.5	<1	<1	<1	<1	<1	<1	5.8	<1	<10	<10	2.3	<1	31
	2/15/2006	4.4	36	8.8	3.2	7.4	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	5.7	<5	<5	<5	<5	1.2	<1
	8/1/2006	6	42	9.5	3.9	8.9	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	3.9	<2	<5	<5	<5	<5	57
	11/8/2006	17	62	8.9	4.2	13	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	3.8	<2	<5	<5	<5	<5	<50
	2/7/2007	19	57	12	4.8	12	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	4.2	<2	<5				

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
MW-203	12/1/1990	-	-	-	-	-	-	-	-	94	<5	7	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1991	-	-	-	-	-	-	-	-	100	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	6/1/1991	-	-	-	-	-	-	-	-	100	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1991	-	-	-	-	-	-	-	-	140	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1991	-	-	-	-	-	-	-	-	130	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1992	-	-	-	-	-	-	-	-	120	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	6/1/1992	-	-	-	-	-	-	-	-	85	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1992	-	-	-	-	-	-	-	-	46	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	64	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1993	-	-	-	-	-	-	-	-	69	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	5/1/1993	-	-	-	-	-	-	-	-	86	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	5/25/1993	-	-	-	-	-	-	-	-	86	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1993	-	-	-	-	-	-	-	-	40	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	39	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	27	<5	<5	<15	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	28	<2	<2	<2	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	-	40	4.5	-	-	-	-	1.4	37	1	12	1.9	-	-	-	0.61	-	-	-	-	-	
	7/31/1996	<0.3	0.34	22	1.7	<0.3	<0.3	-	-	2	43	2	1.8	<5	-	-	-	0.34	-	<0.3	-	<20	-	
MW-203	12/17/1996	<1	<1	<1	<1	<1	<1	<1	<1	<2	30	<1	<1	<2	<1	<1	-	<1	1.2	<1	<1	-	<2	-
	1/20/1998	<5	<5	28	<5	<5	<5	<5	<5	<10	24	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-
	8/20/1998	<5	<5	35	<5	<5	<5	<5	<5	<10	17	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-
	1/27/1999	<5	<5	35	<5	<5	<5	<5	<5	<10	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-
	7/19/1999	<1	<1	24	1.9	<1	<0.5	<1	<1	<0.5	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	-
	1/12/2000	<1	<1	14	<1	<1	0.53	<1	<1	<5	7.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	7/31/2000	<1	<1	16	<1	<1	<0.5	<1	<1	0.51	97	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	2/6/2001	<1	<1	25	1.6	<1	<0.5	<1	<1	1.1	13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	7/24/2001	<1	<1	24	1.8	<1	<0.5	<1	<1	8.3	14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	5/8/2002	<2	<1	21	1.7	<1	<0.5	<1	<1	0.53	8.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	9/25/2002	<3	<1	27	2.5	<1	<0.5	<1	<1	1.1	11	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<10	<10	-
	7/1/2004	<5	<5	24	4J	<5	<5	<5	<5	<5	9.2	0.5J	0.75	<1	<5	-	<5	<5	<5	<5	<5	<5	<5	<100
	8/2/2006	<2	<2	18	4.4	<5	<2	<2	<2	11	3.1	<2	<2	<4	<5	<2	<2	<2	<2	<2	<2	<5	<5	<50
	11/9/2006	<2	<2	20	4.8	<5	<2	<2	<2	10	2.5	<2	<2	<4	<5	<2	<2	<2	<2	<2	<5	<5	<5	<50
	2/8/2007	<2	<2	21	3.4	<5	<2	<2	<2	9.7	2	<2	<2	<4	<5	<2	<2	<2	<2	<2	<5	<5	<5	<50
	5/10/2007	<2	<2	14	2.8	<5	<2	<2	<2	7.8	1	<2	<2	<4	<5	<2	0.56	0.75	<2	<5	<5	0.41	0.7	28
	8/9/2007	<2	<2	16	2.4	<5	<2	<2	<2	8.5	0.88	<2	<2	<4	<5	<2	0.5	0.77	<2	<5	<5	0.47	0.59	27
	11/7/2007	<0.32	<0.26	18	2.5	<0.42	<0.28	<0.26	<0.23	8	0.78	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	0.76	<0.25	<0.95	<0.41	0.47	0.69	28
	2/5/2008	<2	<2	19	2.4	<5	<2	<2	<2	8.7	1.4	<2	<2	<4	<5	<2	<2	0.77	<2	<5	<5	0.47	0.63	32
	1/19/2009	<2	<2	20	3	<5	<2	<2	<2	7.6	0.53	<2	<2	<4	<5	<2	<2	0.92	<2	<5	<5	0.58	0.84	40
	4/23/2009	<2	<2	12	1.8	<5	<2	<2	<2	4.9	0.63	<2	<2	<4	<5	<2	<2							

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
MW-501A	8/3/2006	<2	<2	<2	<2	<5	<2	25	6.2	<5	6300	32	170	56	24	140	<2	<2	120	<5	32	<5	700	84	
	11/10/2006	<40	<40	<40	<40	<100	<40	<40	<40	<100	3300	<40	100	<80	<100	250	<40	<40	140	<100	<100	<100	1100	<1000	
	2/12/2007	<40	<40	<40	<40	<100	<40	44	<40	<100	3800	<40	130	<80	<100	380	<40	<40	160	<100	<100	<100	1100	<1000	
	5/11/2007	<100	<100	<100	<100	<250	<100	24	<100	<250	2000	<100	84	<200	16	250	<100	<100	130	<250	<250	<250	640	<2500	
	8/10/2007	<20	<20	<20	<20	<50	<20	27	3.6	<50	1100	15	49	31	23	300	<20	<20	170	<50	<50	<50	630	54	
	11/8/2007	<6.4	<5.2	<6.4	<5.4	<8.4	<5.6	17	<4.6	<6	1400	11	13	<18	20	290	<7.2	<5.4	150	<19	<8.2	<5	410	<98	
MW-502	6/1/1988	-	-	-	-	-	-	-	-	950	79	62	16	-	-	-	-	-	-	-	-	-	-		
	9/1/1988	-	-	-	-	-	-	-	-	1300	180	2800	12000	-	-	-	-	-	-	-	-	-	-		
	12/1/1988	-	-	-	-	-	-	-	-	6500	860	1500	5500	-	-	-	-	-	-	-	-	-	-		
	3/1/1989	-	-	-	-	-	-	-	-	5300	1200	1900	7100	-	-	-	-	-	-	-	-	-	-		
	9/1/1994	-	-	-	-	-	-	-	-	9800	860	1900	3300	-	-	-	-	-	-	-	-	-	-		
	12/1/1994	-	-	-	-	-	-	-	-	8400	1600	1600	6000	-	-	-	-	-	-	-	-	-	-		
	3/1/1995	-	-	-	-	-	-	-	-	18000	480	2100	7500	-	-	-	-	-	-	-	-	-	-		
	9/1/1995	-	-	-	-	-	-	-	-	15000	690	3300	8800	-	-	-	-	-	-	-	-	-	-		
	12/13/1995	-	-	6.9	-	-	6.1	-	-	6900	950	3300	8500	-	-	-	0.89	1.1	-	-	-	-	-	-	
	7/13/1996	<0.3	0.52	6.8	<0.3	0.76	12	-	-	<0.3	13000	400	1800	6800	-	-	-	<0.3	-	<0.3	-	-	1000	-	
	12/18/1996	<500	<500	<500	<500	<500	<500	<500	<500	<1000	11000	<500	2100	570	<500	<500	-	<500	<500	<500	<500	<500	-	<10	
	1/22/1998	<25	<25	<25	<25	<25	<25	70	300	<50	7800	130	1300	921	<25	180	<25	<25	90	<25	320	-	70000	-	
	8/19/1998	<5	<5	10	<5	<5	<5	60	340	<10	12000	100	1400	953	10	140	<5	<5	67	<5	280	-	3E+05	-	
	1/26/1999	<5	<5	10.4	<5	<5	<5	47.1	179	<10	8800	80.4	1030	554	15.1	135	<5	<5	76.7	<5	255	-	1E+05	-	
	7/19/1999	<5000	<5000	<5000	<5000	<5000	<2500	<5000	<5000	<2500	11000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	-	92000	-
	1/13/2000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<500	8100	<1000	<1000	<1000	<10000	<10000	<1000	<1000	<1000	<1000	<1000	<1000	-	8700	-
	8/2/2000	<100	<100	<100	<100	<100	<100	<100	<100	<50	6300	100	250	200	<100	110	<100	<100	<100	<100	<100	<100	-	4500	-
	2/7/2001	<50	<50	<50	<50	<50	<50	<50	<50	<50	5000	82	230	<50	<50	92	<50	<50	62	<500	<500	<500	-	6500	-
	7/25/2001	<50	<50	<50	<50	<50	<50	<50	89	<25	6500	170	400	513	<50	110	<50	<50	62	<500	<500	<500	-	18000	-
	5/9/2002	<200	<200	<200	<200	<200	<200	<200	<200	<100	4300	<200	390	230	<200	<200	<200	<200	<200	<2000	<2000	<2000	-	14000	<2000000
	9/26/2002	<100	<100	<100	<100	<100	<100	<100	100	<50	4000	<100	540	230	<100	100	<100	<100	<100	<1000	<1000	<1000	-	9400	<1000000
MW-502	10/5/2005	<100	<100	<100	<100	<100	<50	110	<100	<50	900	<100	430	110	<100	110	<100	<100	<100	<1000	<1000	<1000	-	15000	<1000
	2/14/2006	<50	<50	<50	<50	<50	<50	139	86	<50	1280	32	616	182	<50	117	<50	<50	87	<50	183	<10	29300	<100	
	8/4/2006	<2	<2	<2	<2	<5	<2	98	160	<5	2500	38	160	740	11	52	<2	<2	55	<5	130	<5	29000	790	
	11/10/2006	<40	<40	<40	<40	<100	<40	240	110	<100	1800	51	820	260	<100	180	<40	<40	150	<100	290	<100	19000	<1000	
	2/9/2007	<400	<400	<400	<400	<1000	<400	<400	<400	<1000	2200	<400	500	<800	<1000	<400	<400	<400	<400	<1000	<1000	<1000	-	23000	<10000
	5/11/2007	<200	<200	<200	<200	<500	<200	250	400	<500	4000	59	500	720	<500	65	<200	<200	63	<500	170	<500	<5000	<5000	
	8/10/2007	<10																							

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	1/14/2000	<20	<20	210	200	90	<10	<20	<20	<10	1000	32	870	140	<20	170	<20	<20	83	<200	<200	-	<20	-
	8/4/2000	<10	<10	140	160	36	<5	<10	<10	<5	610	19	500	35	14	100	<10	<10	68	<10	23	-	<10	-
	2/6/2001	<20	<20	84	150	25	<10	<20	<20	<10	250	<20	320	41	<20	130	<20	<20	89	<200	<200	-	<20	-
	7/25/2001	<50	<50	<50	57	<50	<25	<50	<50	<25	280	<50	230	<50	<50	91	<50	<50	62	<500	<500	-	<50	-
	5/9/2002	<2	<2	23	23	5	<1	2.2	2.5	7.7	81	3.5	77	34.5	18	120	<2	<2	86	<20	26	-	<2	<20000
	9/26/2002	<1	<1	18	16	1.1	<0.5	3.7	2.5	10	36	9.6	140	56	18	150	<1	<1	95	<10	48	-	<1	<10000
	7/1/2004	<5	<5	3J	-	<5	<5	4J	3J	<5	160	37	89	42.5	28	200	<5	<5	16	<5	42	-	<5	<100
	10/5/2005	<20	<20	<20	<20	<20	<10	<20	<20	<10	1100	<20	73	38	<20	90	<20	<20	61	<200	<200	<40	<20	<200
	2/14/2006	<50	<50	<50	<50	<50	<50	<50	<50	<50	331	<50	12	<50	18	56	<50	<50	69	<50	<50	<10	<10	<100
	8/4/2006	<2	<2	7.2	3.1	<5	<2	<2	<2	5.8	31	<2	3.5	4.1	18	29	<2	<2	47	<5	<5	<5	7.6	<50
	11/10/2006	<4	<4	4.9	<4	<10	<4	<4	<4	<10	26	<4	4.7	<8	21	83	<4	<4	70	<10	<10	<10	<10	<100
	2/9/2007	<2	<2	11	2.2	<5	<2	<2	<2	5.4	59	<2	<2	<4	17	29	<2	<2	45	<5	<5	<5	<5	<50
	5/11/2007	<2	<2	17	2.6	0.87	0.47	0.61	<2	7.4	60	0.58	2.1	1.3	18	27	<2	0.63	40	<5	1.5	<5	1.3	<50
	8/10/2007	<2	<2	19	2	0.76	0.64	0.44	0.23	7.6	80	0.62	1.7	1.3	23	32	<2	0.48	52	<5	<5	<5	<5	<50
	11/8/2007	<1.3	<1	15	<1.1	<1.7	<1.1	<1	<0.92	7	270	3.6	3.7	4.7	22	33	<1.4	<1.1	44	<3.8	11	<1	2.8	<20
	2/11/2008	<8	<8	21	1.4	<20	<8	<8	<8	6.3	220	3.1	3.4	4	21	35	<8	<8	35	<20	18	<20	3.4	<200
	1/21/2009	<10	<10	<10	<10	<25	<10	<10	<10	25	410	14	39	32	<25	200	<10	<10	110	<25	36	<25	<25	<250
	4/27/2009	<2	<2	4.8	<2	<5	1.2	2.9	0.53	25	210	11	24	21	19	180	<2	<2	100	<5	29	<5	2.2	<50
	3/8/2010	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	6.7	40	1.4	1.7	-	12	39	<1.0	<1.0	34	<1.0	<1.0	-	2.9	<10
	5/17/2010	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	5.7	91	1	1.2	-	12	44	<1.0	<1.0	35	<1.0	1.4	-	5.1	<10
	8/9/2010	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	1.3	<1.0	5.4	270	5.3	2.4	-	17	24	<1.0	<1.0	25	<1.0	3.4	-	<1.0	<10
MW-603	12/1/1995	-	-	-	-	-	-	-	-	0.98	1.4	0.62	3.3	-	-	-	-	-	-	-	-	-	-	
MW-603	7/30/1996	53	56	6.4	<0.3	30	9.5	-	-	0.45	0.6	<0.5	1.4	<0.5	-	-	-	3.9	-	<0.3	-	-	2	-
MW-603	12/16/1996	37	56	<5	<5	34	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<5	<5	6	<5	-	<2	-	
MW-603	1/22/1998	59	89	9	<5	63	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<10	-	<5	-
MW-603	8/19/1998	13	31	<5	<5	14	29	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	-	-
MW-603	1/27/1999	25	42	5.3	<5	19	39	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	<5	-
MW-603	7/19/1999	37	62	7.4	<1	31	40	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	3	<1	<10	<10	-	<1	-
MW-603	1/11/2000	56	74	6.4	<1	39	16	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	3.6	<1	<10	<1	-	<1	-
MW-603	7/31/2000	95	110	9.3	<1	88	7.2	<1	<1	0.71	<0.5	<1	<1	<1	<1	<1	<1	6.7	<1	<10	<1	-	<1	-
MW-603	2/7/2001	89	140	11	2.8	120	2.7	<1	<1	0.96	<0.5	<1	<1	<1	<1	<1	<1	8.5	<1	<10	<1	-	<1	-
MW-603	7/24/2001	110	210	15	8.3	150	2.9	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	10	<1	<10	<1	-	<1	-
MW-603	5/7/2002	170	160	9.6	3.4	120	<1	<2	<2	<1	<1	<2	<2	<4	<2	<2	<2	7	<2	<2	<20	-	<2	<20000
MW-603	9/24/2002	210	210	14	5.3	210	3.2	<2	<2	1.6	<1	<2	<2	<2	<2	<2	<2	11	<2	<2	<20	-	<2	<20000
MW-603	7/1/2004	120	87	12	3J	80	3J	<5	&															

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Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	10/5/2005	4.5	20	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<2	<1	<10	
	2/14/2006	5.3	21	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<10
	8/1/2006	9.2	26	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50
	11/7/2006	21	29	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50
	2/6/2007	35	35	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50
	5/8/2007	45	35	1.6	<2	3.7	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	0.74	<2	<5	<5	<5	<5	<50
	8/7/2007	37	33	1.2	<2	3	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	0.77	<2	<5	<5	<5	<5	<50	
	11/5/2007	20	20	0.84	<0.27	2.6	<0.28	<0.26	<0.23	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	0.53	<0.25	<0.95	<0.41	<0.25	<0.32	<4.9	
MW-605	2/4/2008	21	21	1.1	<2	4	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	0.67	<2	<5	<5	<5	<5	<5	<50	
MW-606	12/19/1995	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-		
	7/31/1996	<0.3	<0.3	<0.3	<0.3	<0.3	0.96	-	-	<0.3	<0.5	<0.5	<0.5	-	-	-	<0.3	-	<0.3	-	-	<20	-		
	12/16/1996	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	-	<1	<1	<1	<1	<1	<1	<2	-	
	1/22/1998	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	<5
	8/19/1998	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	-
	1/28/1999	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	<5
	7/19/1999	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-
	1/11/2000	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	1.2	-
	8/2/2000	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	-	-
	2/7/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	
	7/24/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	-	-	
	5/7/2002	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<100	<10000	
	9/24/2002	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<2	<1	<1	<1	<1	<1	<10	<10	-	<100	<10000	
	6/30/2004	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<1	<5	<5	<5	<5	<5	<5	<5	<3J	<100	
	10/5/2005	<1	<1	<1	<1	<1	<0.5	<1	<1	3.2	5.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<2	4.8	42
	2/14/2006	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<10
	8/1/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<2	<5	<5	<5	<5	<50
	11/7/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	2/6/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	5/8/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	8/7/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	0.9	<50
	11/5/2007	<0.32	<0.26	<0.32	<0.27	<0.42	<0.28	<0.26	<0.23	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	0.32	<4.9	
	2/4/2008	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	1/13/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	4/21/2009	<2	<2	<2	<2	<5	<2	<2																	

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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA		
	8/19/1998	<5	<5	<5	<5	<5	<5	<5	<5	<10	17	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	12	-	
	1/27/1999	<5	<5	<5	<5	<5	<5	<5	<5	<10	220	<5	<5	<5	<5	25	<5	<5	15	<5	<5	<10	-	6.2	-	
	7/19/1999	<5	<5	<5	<5	<5	<2.5	<5	<5	<2.5	260	<5	<5	<5	5.2	20	<5	<5	13	<50	<50	-	<5	-	-	
	1/11/2000	<2	<2	<2	<2	<2	<1	<2	<2	<1	170	<2	<2	<2	3.3	7.3	<2	<2	8.6	<20	<20	-	4.5	-	-	
	7/31/2000	<2	<2	<2	<2	<2	<1	<2	<2	1.1	110	<2	<2	<2	4.1	3.8	<2	<2	7.3	<20	<10	-	6.2	-	-	
	2/7/2001	<1	<1	1.1	<1	<1	<0.5	<1	<1	0.55	12	<1	<1	<1	2.5	1.3	<1	<1	3.5	<10	<10	-	<1	-	-	
	7/24/2001	<1	<1	1.4	<1	<1	<0.5	<1	<1	<0.5	13	<1	<1	<1	3.3	2.4	<1	<1	5.3	<10	<10	-	<1	-	-	
	5/7/2002	<1	<1	1.7	<1	<1	<0.5	<3	<1	<0.5	5.4	<1	<1	<1	3.7	<1	<1	<1	3.6	<10	<10	-	<1	91000	-	
	9/24/2002	<1	<1	2	<1	<1	<0.5	<3	<1	<0.5	<0.5	<1	<1	<2	3.6	<1	<1	<1	1.8	<10	<10	-	4.2	76000	-	
	6/30/2004	<5	<5	<5	<5	<5	<5	3J	<5	3J	10	<0.5	<0.5	1.9	5J	19	<5	<5	19	<5	<5	<5	-	4J	50J	-
	10/5/2005	<1	<1	<1	<1	<1	<0.5	<1	<1	1.2	1.2	<1	<1	<1	2.7	12	<1	<1	9.1	<10	<10	<2	1.7	74	-	
	2/14/2006	<5	<5	<5	<5	<5	<5	<5	<5	1	<1	<5	<5	<5	2.6	11	<5	<5	8	<5	<5	<1	2.1	57	-	
	8/1/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	6.6	<5	<5	<5	<5	120	-	
	11/7/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	77	-	
	2/6/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	13	<2	<2	6.8	<5	<5	<5	<5	130	-	
	5/8/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	1.4	1.9	<2	<2	3.2	<5	<5	<5	<5	2.3	110	-
	8/7/2007	<2	<2	<2	<2	<5	0.53	<2	<2	1.2	0.5	<2	<2	<4	3.4	6.7	<2	0.33	7.8	<5	<5	<5	<5	4	120	-
	11/5/2007	<0.32	<0.26	<0.32	<0.27	<0.42	0.38	<0.26	<0.23	0.99	0.5	<0.36	<0.25	<0.9	3.6	15	<0.36	0.29	9.6	<0.95	<0.41	<0.25	3.1	140	-	
MW-607	2/4/2008	<2	<2	<2	<2	<5	0.53	<2	0.45	1.3	<2	<2	<2	<4	6.3	34	<2	0.4	19	<5	2.8	<5	5.6	230	-	
W-1	9/1/1989	<1	<1	1.2	<1	<1	<0.5	<1	<1	13	46	<1	<1	<1	3.9	24	<1	1.5	21	<10	<10	-	2.7	-	-	
	11/1/1989	<0.5A	<0.5A	-	<0.5A	<0.6A	<0.5A	-	-	21	390	3.9	2.1	6.4	-	-	<0.5	0.12847	-	<0.5A	-	-	-	-		
	3/1/1990	<5	<5	-	<10	<5	<5	-	-	<20	140	<5	<5	<20	-	-	<10	<5	-	<20	-	-	-	-		
	4/1/1990	<5	<5	<25	<5	<5	<5	-	-	<5	200	12	12	2.7	-	-	<5	1.6	-	<5	-	-	-	-		
	12/18/1996	<5	<5	<5	<5	<5	<5	<5	<5	<10	78	<5	<5	<10	<5	31	-	<5	27	<5	10	-	<10	-		
	1/14/1998	<5	<5	<5	<5	<5	<5	<5	<5	16	62	<5	<5	<5	<5	20	<5	<5	19	<5	<10	-	<5	-		
	8/20/1998	<5	<5	8.6	<5	<5	<5	<5	<5	26	79	<5	<5	<5	5	30	<5	8.4	27	<5	<10	-	14	-		
	1/29/1999	<5	<5	<5	<5	<5	<5	<5	<5	18	57	<5	<5	<5	<5	28	<5	<5	24	<5	<10	-	<5	-		
	7/19/1999	<2	<2	<2	<2	<2	<1	<2	<2	<1	48	<2	<2	<2	4.4	23	<2	<2	19	<20	<20	-	<2	-		
	8/3/2000	<1	<1	1.6	<1	<1	<0.5	<1	<1	7.3	29	<1	<1	<1	3.2	18	<1	1.6	18	<10	<10	-	10	-		
	2/8/2001	<1	<1	2.3	<1	<1	<0.5	<1	<1	6.3	21	<1	<1	<1	1.8	5.9	<1	<1	5.6	<10	<10	-	68	-		
	7/26/2001	<1	<1	2.8	<1	<1	<0.5	<1	<1	6.8	18	<1	<1	<1	2.2	7.7	<1	1.8	10	<10	<10	-	62	-		
	5/8/2002	<1	<1	3.1	<1	<1	<0.5	<1	<1	6.4	7.7	<1	<1	<1	<1	2.4	<1	<1	3.3	<10	<10	-	5.9	44000		
	9/25/2002	<1	<1	6.5	<1	<1	<0.5	<1	<1	14	12	<1	<1	<2	1	2.7	<1	<1	5.1	<10	<10	-	1.9	30000		
	7/1/2004	<5	<5	9.3	4J	<5	<5	<5	<5	2	14	2.8	1.5	<1	1J	-	<5	1J	<5	<5	<5	-	3J	<100		
	10/6/2005	<1	<1	<1	1.6	<1	<0.5</td																			

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	5/10/2007	<2	<2	<2	0.42	<5	<2	<2	<2	1.8	110	0.57	0.61	<4	3.4	16	<2	<2	21	<5	1	<5	28	43	
	8/9/2007	<2	<2	<2	0.47	<5	<2	<2	<2	1.9	140	0.84	0.84	1.2	5.4	30	<2	0.32	33	<5	1.1	0.25	64	84	
	11/7/2007	<0.32	<0.26	<0.32	0.7	<0.42	<0.28	2.1	0.38	1.2	140	1.6	1.2	1.6	5.8	37	<0.36	<0.27	35	<0.95	1.6	0.25	56	80	
	2/7/2008	<2	<2	<2	<2	<5	<2	<2	<2	<5	96	<2	<2	<4	5	24	<2	<2	25	<5	<5	<5	31	51	
	1/20/2009	<2	<2	0.4	1.1	<5	<2	<2	<2	3.7	19	<2	<2	<4	1.1	2.5	0.49	0.61	4.8	<5	<5	0.49	3.9	35	
	4/24/2009	<2	<2	<2	1.4	<5	<2	<2	<2	9.5	3.9	<2	<2	<4	0.48	0.71	0.44	0.74	1.8	<5	<5	0.42	<5	26	
	3/5/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	1.3	3.3	<0.50	<0.50	-	<1.0	1	<1.0	<1.0	2.5	<1.0	<1.0	-	<1.0	<10	
	5/13/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	1.2	9.3	<0.50	<0.50	-	<1.0	2.1	<1.0	<1.0	4.9	<1.0	<1.0	-	<1.0	<10	
	8/6/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	17	<0.50	<0.50	-	<1.0	1.8	<1.0	<1.0	4.2	<1.0	<1.0	-	<1.0	10	
W-14A	2/12/2008	2.3	15	9	1.1	2.5	0.37	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	0.46	<2	<5	<5	<5	<50		
	1/13/2009	<2	2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<50		
	4/21/2009	1.3	14	8.7	0.86	2.8	0.4	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	0.44	<2	<5	<5	<5	0.47	8.1	
	3/1/2010	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	5/10/2010	<1.0	<1.0	1.9	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	8/2/2010	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
W-14B	2/12/2008	0.72	2.2	0.83	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<50		
	1/13/2009	8.4	28	4.8	<2	10	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<50		
	4/21/2009	19	81	9.6	2.6	26	0.45	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	2.2	<2	<5	<5	<5	<50		
	3/1/2010	<1.0	12	5.6	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	5/10/2010	1.2	32	6.2	1.1	6	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	8/2/2010	<1.0	17	3.1	<1.0	3.4	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
W-14C	2/12/2008	0.89	44	22	5.7	16	0.48	<2	<2	0.58	1.2	<2	<2	<4	0.39	<2	<2	3.7	0.31	<5	<5	0.53	<50		
	1/14/2009	<2	30	34	8.8	17	<2	<2	<2	<5	2.5	<2	<2	<4	<5	<2	<2	3.4	<2	<5	<5	<5	<50		
	4/21/2009	<2	20	23	4.5	8.1	<2	<2	<2	<5	1.5	<2	<2	<4	0.49	<2	<2	2.1	0.32	<5	<5	0.27	<5	10	
	3/1/2010	<1.0	13	34	5.8	12	<0.50	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<0.50	-	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	-	<1.0	<10
W-14C	5/10/2010	<1.0	4.1	13	2	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	0.58	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
	8/2/2010	<1.0	7.8	35	4.6	4.2	<0.50	<1.0	<1.0	<1.0	<1.0	1.1	<0.50	<0.50	-	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	-	<1.0	<10
W-15A	2/11/2008	<20	<20	<20	<20	<50	<20	<20	<20	<50	620	4.9	5.1	12	10	140	<20	95	<50	<50	<50	650	120		
	1/14/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	7.4	<2	<2	<4	<5	10	<2	<2	6.4	<5	<5	<5	190	170	
	4/24/2009	<4	<4	<4	<4	<10	<4	<4	<4	<10	8.4	<4	<4	<8	1.3	13	<4	<4	8.7	<10	<10	<10	220	220	
	3/2/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	0.93	<0.50	<0.50	-	<1.0	4.3	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	-	44	94
	5/10/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	1.5	<0.50	&												

TABLE IV
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
W-15C	4/24/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	6.2	<2	<2	<4	<5	1.3	<2	<2	1	<5	<5	<5	5.8	98	
	3/2/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	3.8	<0.50	<0.50	-	1	5	<1.0	<1.0	4.6	<1.0	<1.0	-	5	<10	
	5/11/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	20	<0.50	<0.50	-	2.4	18	<1.0	<1.0	16	<1.0	<1.0	-	17	36	
	8/3/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	14	<0.50	<0.50	-	1.1	10	<1.0	<1.0	8.8	<1.0	<1.0	-	19	67	
	2/11/2008	<2	0.51	1.1	<2	<5	0.35	<2	<2	0.34	0.94	0.57	<2	<4	<5	<2	<2	0.45	<2	<5	<5	<5	<5	18	
	1/15/2009	<2	3.2	5.7	<2	0.66	0.86	<2	<2	0.9	1.1	<2	<2	<4	<5	<2	<2	1.2	<2	<5	<5	<5	<5	27	
W-16A	4/24/2009	<2	0.55	1	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	0.36	<5	<5	<5	<5	<5	25
	3/2/2010	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	5/11/2010	<1.0	1.1	1.6	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	8/3/2010	<1.0	3.5	4.7	<1.0	<1.0	0.54	<1.0	<1.0	1.5	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	20	
	11/9/2007	<0.32	<0.26	<0.32	<0.27	<0.42	<0.28	<0.26	<0.23	16	41	<0.36	<0.25	<0.9	1.7	1.7	<0.36	2.6	4.3	<0.95	<0.41	0.27	<0.32	30	
	2/6/2008	<2	<2	<2	0.88	<5	<2	0.63	<2	14	40	<2	<2	<4	2.2	3.3	0.6	2.8	6.7	<5	<5	0.33	<5	34	
W-16B	1/21/2009	<2	<2	<2	<2	<5	<2	<2	<2	7.2	30	<2	<2	<4	<5	4.2	<2	2.5	9.4	<5	<5	<5	<5	<50	
	4/27/2009	<2	<2	<2	0.54	<5	<2	0.27	<2	17	34	<2	<2	<4	2.8	1.7	0.57	1.8	7.9	<5	<5	0.32	<5	20	
	3/5/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	2.9	4.2	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	-	<1.0	<10	
	5/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
	8/9/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	0.93	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
	11/9/2007	<0.32	0.72	6.6	8.7	<0.42	<0.28	<0.26	0.26	<0.3	7.4	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	0.25	<0.95	0.8	<0.25	<0.32	9.1	
W-16C	2/6/2008	<2	2.2	27	43	<5	<2	<2	0.4	<5	48	<2	0.33	<4	<5	1.4	<2	<2	2.1	<5	1.9	<5	<5	9.9	
	1/21/2009	<2	<2	9.7	15	<5	<2	<2	<2	<5	16	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	4/27/2009	<20	<20	6.1	9.4	<50	<20	<20	<20	<50	0.9	<20	<20	<40	<50	<20	<20	<20	<20	<50	<50	<50	<50	<500	
	3/8/2010	<1.0	<1.0	5.8	3.7	<1.0	<0.50	<1.0	<1.0	<1.0	8.6	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
	5/14/2010	<1.0	<1.0	3	1	<1.0	<0.50	<1.0	<1.0	<1.0	3	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
	8/9/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	1.3	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
W-3A	11/9/2007	<0.32	0.76	40	12	1.1	<0.28	<0.26	<0.23	5.6	18	<0.36	<0.25	<0.9	<0.25	<0.27	4.6	11	<0.25	<0.95	<0.41	<0.25	<0.32	13	
	2/6/2008	<2	0.74	66	14	2.7	<2	<2	<2	18	30	0.46	<2	<4	<5	<2	12	24	<2	<5	<5	<5	<5	21	
	1/21/2009	<2	<2	73	17	<5	<2	<2	<2	24	40	<2	<2	<4	<5	<2	16	35	<2	<5	<5	<5	<5	<50	
	4/28/2009	<2	0.52	41	12	1.3	<2	<2	<2	8.2	20	<2	<2	<4	<5	<2	7.1	14	<2	<5	<5	<5	<5	8.2	
	3/8/2010	<1.0	<1.0	9.1	1.2	<1.0	<0.50	<1.0	<1.0	<1.0	2.5	<0.50	<0.50	-	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	5/14/2010	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	1.3	<0.50	<0.50	-	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
W-3A	8/9/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10		
	1/13/1998	-	-	-	-	-	-	-	-	150000	<6000	35000	<12000	-	-	-	-	-	-	-	-	<200000C	-		
	8/20/1998	<25	<25	<25	<25	<25	<25	<25	<25	<50	220	<25	33	<25	<25	<25	<25	<25	<25	<25	<25	<25	440	-	
	1/28/1999	<50	<50	<50	<50	<50	<50	<50	<50	<100	160	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	340	-	
W-3A	7/19/1999	<20	<20	<20	<20	<20	<10	<20	37	<10	120	<20	<20	<20	<20	26	<20	21	<200	<200	-	380	-		

TABLE IV
Summary of VOC and Oxygenate Results
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	1/13/2000	<10	<10	<10	<10	<10	<5	<10	<10	7	140	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100	-	210	-	
	8/4/2000	<2	<2	<20	<2	<20	<1	2	2	5	170	<20	8.4	<20	7.3	21	<2	<20	14	<20	<50	-	220	-	
	2/8/2001	<1	<1	<1	<1	<1	<0.5	4.4	13	1.7	34	<1	2.9	3.1	3.6	12	<1	<1	11	<10	63	-	12	-	
	7/26/2001	<1	<1	<1	<1	<1	<0.5	<1	15	27	42	<1	1.7	<10	7.5	24	<1	<1	21	<10	11	-	6.2	-	
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	
	9/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	
	2/16/2006	<5	<5	<5	<5	<5	<5	16	18	<5	<1	<5	<5	<5	23	27	<5	<5	19	<5	<5	<1	6.2	16	
	8/3/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	13	25	<2	<2	19	<5	38	<5	9	<50	
	11/9/2006	<2	<2	<2	<2	<5	<2	9.5	6.4	<5	<2	<2	<2	<4	15	26	<2	<2	12	<5	37	<5	11	<50	
	2/8/2007	<2	<2	<2	<2	<5	<2	6.1	3.9	<5	<2	<2	<2	<4	6.7	14	<2	<2	11	<5	30	<5	8.4	<50	
	5/10/2007	<2	<2	<2	<2	<5	<2	3.6	2.3	<5	0.66	<2	<2	<4	6.1	15	<2	<2	12	<5	16	<5	7.8	23	
	8/9/2007	<2	<2	<2	<2	<5	<2	2.3	2	<5	0.79	<2	<2	<4	5.8	17	<2	<2	14	<5	14	<5	9.8	26	
	11/7/2007	<0.32	<0.26	<0.32	<0.27	<0.42	<0.28	0.67	0.64	<0.3	0.62	<0.36	<0.25	<0.9	5.2	17	<0.36	<0.27	12	<0.95	<0.41	<0.25	9.7	26	
	2/7/2008	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	6.2	19	<2	<2	13	<5	<5	<5	10	<50	
W-4	3/1/1990	<0.5	<0.5	3.2	<0.5	<0.5	<0.5	-	-	<0.5	120	<0.5	19	<0.5	-	-	<0.5	8.3	-	<0.5	-	-	-	-	
	4/1/1990	<1	<1	0.81	<1	<1	<1	-	-	4.3	28	1.4	4.8	2.2	-	-	<1	2.2	-	<2	-	-	-	-	
	12/18/1996	<5	<5	<5	<5	<5	<5	<5	<5	<10	80	<5	<5	<10	<5	18	-	<5	19	<5	<5	<5	<10	-	
	1/14/1998	<5	<5	<5	<5	<5	<5	<5	<5	16	120	<5	<5	<5	<5	27	<5	<5	28	<5	<10	-	<5	-	
	8/20/1998	<5	<5	<5	<5	<5	<5	<5	<5	9.8	57	<5	<5	<5	<5	25	<5	<5	26	<5	<10	-	18	-	
	1/29/1999	<5	<5	<5	<5	<5	<5	<5	<5	11	55	<5	<5	<5	<5	16	<5	<5	18	<5	<10	-	20	-	
	7/19/1999	<2	<2	<2	<2	<2	<1	<2	<2	<1	72	<2	<2	<2	<2	2.7	15	<2	<2	14	<20	<20	-	<2	-
	1/13/2000	<1	<10	1.3	<1	<1	<0.5	<1	<1	13	49	<1	<1	<1	<1	1.4	1.6	<1	<1	2.8	<10	<10	-	<1	-
	8/3/2000	<1	<10	<1	1.2	<1	<0.5	<1	<1	12	47	<1	<1	<1	<1	1.5	2.3	<1	<1	8.8	<10	<10	-	-	-
	2/8/2001	<1	<1	<1	<1	<1	0.67	<1	<1	7	42	<1	<1	<1	<1	1.1	3	<1	<1	7.5	<10	<10	-	<1	-
	7/26/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	42	<1	<1	<1	<1	1.7	5.7	<1	1	8.3	<10	<10	-	<1	-
	5/8/2002	<1	<1	<1	2	<1	<0.5	<1	<1	5.2	33	<1	<1	<1	<1	1.4	2.3	<1	1.3	4.5	<10	<10	-	<1	60000
	9/25/2002	<1	<1	<1	3.8	<1	<0.5	<1	<1	<0.5	62	<1	<1	<1	<2	2.3	4.9	<1	2	8	<10	<1	-	<1	45000
	7/1/2004	<5	<5	3J	1J	<5	<5	<5	<5	11	30	2.6	1.9	1.16	1J	3J	<5	2J	4	<5	<5	-	<5	<100	
	10/6/2005	<1	<1	6.4	<1	<1	<0.5	<1	<1	1.3	31	<1	<1	<1	<1	1.1	4.2	<1	1.7	5.9	<10	<10	<2	<1	47
	2/15/2006	<5	<5	2.8	<5	<5	<5	<5	<5	2.4	43	<5	<5	<5	<5	2	7.5	<5	2.5	12	<5	<5	<1	<1	38
	8/3/2006	<2	<2	4.5	<2	<5	<2	<2	<2	<5	3.5	<2	<2	<4	<5	<2	<2	<2	2.5	<5	<5	<5	<5	<50	
	11/9/2006	<2	<2	5.1	<2	<5	<2	<2	<2	<5	6.1	<2	<2	<4	<5	3.2	<2	<2	4.2	<5	<5	<5	<5	<50	
	2/8/2007	<2	<2	4.7	<2	<5	<2	<2	<2	<5	3.1	<2	<2	<4	<5	2.8	<2	<2	3.7	<5	<5	<5	<5	<50	
	5/10/2007	<2	<2	3.8	<2	<5	<2	<2	<2	<2	1	1.5	<2	<2	<4	1.3	3.9	<2	<2	5.2	<5	<5	<5	1.6	30
	8/9/2007	<2	<2	3.2	<2	<5	<2	<2	<2	<2	0.59	1	<2</td												

TABLE IV
Summary of VOC and Oxygenate Results
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	3/5/2010	<1.0	<1.0	3.7	<1.0	<1.0	<0.50	<1.0	<1.0	7.4	1.5	<0.50	<0.50	-	1.6	11	<1.0	<1.0	13	<1.0	<1.0	-	<1.0	<10	
	5/13/2010	<1.0	<1.0	3.1	<1.0	<1.0	<0.50	<1.0	<1.0	5.4	4.3	<0.50	<0.50	-	1.3	10	<1.0	<1.0	12	<1.0	<1.0	-	<1.0	<10	
	8/6/2010	<1.0	<1.0	4	<1.0	<1.0	<0.50	<1.0	<1.0	7.2	68	<0.50	<0.50	-	1.6	10	<1.0	<1.0	16	<1.0	<1.0	-	<1.0	<10	
MW-103	6/1/1988	-	-	-	-	-	-	-	-	970	74	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1988	-	-	-	-	-	-	-	-	300	<5	<5	8	-	-	-	-	-	-	-	-	-	-	-	
	12/1/1988	-	-	-	-	-	-	-	-	370	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
MW-103	3/1/1989	-	-	-	-	-	-	-	-	940	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	6/1/1989	-	-	-	-	-	-	-	-	700	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1989	-	-	-	-	-	-	-	-	1000	30	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	3/1/1992	-	-	-	-	-	-	-	-	210	<5	5	23	-	-	-	-	-	-	-	-	-	-	-	
	6/1/1992	-	-	-	-	-	-	-	-	880	<5	<5	55	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1992	-	-	-	-	-	-	-	-	200	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	350	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	
	3/1/1993	-	-	-	-	-	-	-	-	<5	8	19	10	-	-	-	-	-	-	-	-	-	-	-	
	5/1/1993	-	-	-	-	-	-	-	-	4800	<250	<250	<250	-	-	-	-	-	-	-	-	-	-	-	
	5/25/1993	-	-	-	-	-	-	-	-	4800	<250	<250	<250	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1993	-	-	-	-	-	-	-	-	1300	88	62	230	-	-	-	-	-	-	-	-	-	-	-	
	11/1/1993	-	-	-	-	-	-	-	-	1400	<250	<250	<250	-	-	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	240	<10	<10	11	-	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	160	<5	<5	<15	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	900	<50	<50	<50	-	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	-	-	2.5	410	4.1	2.6	77	-	-	-	2.2	-	<0.5	-	-	-	-	
	7/31/1996	<0.3	0.38	0.7	<0.3	<0.3	1.7	-	-	<0.3	340	5	<0.5	12	-	-	-	17	-	<0.3	-	-	<10	-	
	12/17/1996	8.9	<5	<5	<5	<5	<5	<5	<5	54	200	<5	<5	<10	<5	8.4	-	27	6	<5	<5	-	<10	-	
	1/21/1998	<5	<5	<5	<5	<5	<5	<5	<5	28	230	<5	<5	<5	<5	15	<5	<5	11	<5	<10	-	<5	-	
	8/19/1998	<5	<5	<5	<5	<5	<5	<5	<5	<10	220	<5	<5	<5	<5	5.4	18	<5	<5	11	<5	<10	-	<5	-
	1/27/1999	<5	<5	<5	<5	<5	<5	<5	<5	<10	110	<5	<5	<5	<5	5.9	<5	<5	7.1	<5	<10	-	<5	-	
	7/19/1999	<1	<1	1.2	<1	<1	<0.5	<1	<1	<0.5	61	1.1	<1	<1	3.9	8.1	<1	<1	8.8	<10	<10	-	<1	-	
	1/12/2000	<1	<1	3	<1	<1	4	<1	<1	<0.5	81	<1	<1	<1	3.7	6.7	<1	<1	6.3	<10	<10	-	1.2	-	
	8/4/2000	<1	1.2	2.9	<1	<1	1.5	<1	<1	0.75	<0.5	<1	<1	<1	3.9	<1	<1	<1	3.5	<10	<10	-	<1	-	
	2/9/2001	<1	<1	2.4	<1	<1	<0.5	<1	<1	<0.5	0.87	<1	<1	<1	3.6	<1	<1	<1	4.7	<10	<10	-	<1	-	
	7/25/2001	<1	<1	2.5	<1	<1	<0.5	1.7	5.8	<0.5	41	<1	<1	2.7	3.2	5.5	<1	<1	4.1	<10	<10	-	2.5	-	
	5/8/2002	<1	<1	1.3	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	53000	
	9/25/2002	<1	<1	1.6	<1	<1	<0.5	<1	1.4	<0.5	40	<1	<1	1.3	4.3	13	<1	<1	6.7	<10	<10	-	1.4	40000	
	8/3/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	71	200	
	11/8/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	4.1	<2	<2	<4	<5	<2	<2	<2	3.1	<5	<5	<5	41	160	
	2/8/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	36	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	26	190	
	5/9/2007	<2	<2	0.93	<2	<5	0.32	<2	<2	<5	0.51	<2	<2	<4	1.9	2.4	<2	<2	2.6	1.5	<5	<5	12	85	
	8/8/2007	<2	<2	1.4	<2	<5	0.53	<2	<2	<5	1.3	<2	0.51	<4	3.8	7.3	<2	<2	6.8	<5	<5	<5	14	110	

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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	6/1/1990	-	-	-	-	-	-	-	-	2	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	9/1/1990	-	-	-	-	-	-	-	-	25	<5	<5	6	-	-	-	-	-	-	-	-	-	-		
	12/1/1990	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	3/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	6/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	9/1/1991	-	-	-	-	-	-	-	-	27	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	12/1/1991	-	-	-	-	-	-	-	-	47	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	3/1/1992	-	-	-	-	-	-	-	-	90	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	6/1/1992	-	-	-	-	-	-	-	-	110	71	<5	20	-	-	-	-	-	-	-	-	-	-		
	9/1/1992	-	-	-	-	-	-	-	-	90	20	<5	<5	-	-	-	-	-	-	-	-	-	-		
	12/1/1992	-	-	-	-	-	-	-	-	2700	3700	<5	1060	-	-	-	-	-	-	-	-	-	-		
	4/1/1993	-	-	-	-	-	-	-	-	130	28	21	193	-	-	-	-	-	-	-	-	-	-		
	5/1/1993	-	-	-	-	-	-	-	-	780	<50	<50	<50	-	-	-	-	-	-	-	-	-	-		
	5/25/1993	-	-	-	-	-	-	-	-	780	<50	<50	<50	-	-	-	-	-	-	-	-	-	-		
	12/1/1994	-	-	-	-	-	-	-	-	5500	630	190	990	-	-	-	-	-	-	-	-	-	-		
	3/1/1995	-	-	-	-	-	-	-	-	5000	77	120	490	-	-	-	-	-	-	-	-	-	-		
	9/1/1995	-	-	-	-	-	-	-	-	6900	4700	650	3700	-	-	-	-	-	-	-	-	-	-		
	12/13/1995	-	-	-	-	-	-	-	-	880	670	240	860	-	-	-	-	-	-	-	-	-	-		
	8/1/1996	<1	1.1	2.9	<1	<1	7.2	-	-	5.2	1400	1300	520	1700	-	-	-	3.3	-	<1	-	-	32	-	
	12/17/1996	<50	<50	<50	<50	<50	<50	<50	<50	<100	750	58	<50	<100	<50	<50	-	<50	<50	<50	<50	<50	<200	-	
	1/21/1998	<5	<5	<5	<5	<5	<5	23	90	9	2300	79	210	500	81	36	<5	<5	12	<5	65	-	5.1	-	
	8/21/1998	<50	<50	<50	<50	<50	150	<50	200	<100	5100	510	520	1730	<50	54	<50	<50	<50	<50	<50	<100	-	<50	
	1/28/1999	<50	<50	<50	<50	<50	<50	61	250	12	3300	120	530	2080	<50	48	<50	<50	18	<50	94	-	5.2	-	
	7/19/1999	<10	<10	<10	<10	<10	<5	11	47	<5	560	<10	110	230	<100	23	<10	<10	<10	<100	<100	-	27	-	
	1/11/2000	<10	<10	<10	<10	<10	<5	<10	<10	<5	270	<10	<10	14	<10	19	<10	<10	<10	<100	<100	-	<10	-	
	8/3/2000	<5	<5	<5	<5	<5	<2.5	<5	<5	<2.5	400	<5	12	10	<5	21	<5	<5	8.2	<50	<10	-	<5	-	
	2/8/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	55	1.4	<1	1.5	<1	2.9	<1	<1	1.4	<10	<10	-	<1	-	
	7/24/2001	<1	<1	1.5	<1	<1	<0.5	<1	<1	<0.5	200	<1	12	4.8	<1	<1	<1	<1	4.7	1.3	<10	<10	-	1.6	-
MW-204	5/9/2002	<2	<2	2.7	<2	<2	<1	8.9	26	3.5	250	37	120	289	<2	13	<2	3.5	5.7	<20	<20	-	<2	170000	
	9/26/2002	<2	<2	3.6	<2	<2	<1	7.7	22	3.4	67	2.5	19	55.5	<2	9.5	<2	<2	5	<20	<20	-	<2	200000	
	6/30/2004	<5	<5	4J	<5	<5	<5	2J	6.8	<5	30	<5	7.6	6.5	<5	<5	<5	<5	2J	<5	4J	-	<5	150	
	10/7/2005	<1	<1	3.4	<1	<1	1.6	1.2	2.3	<0.5	5.7	<1	4.2	2.1	<1	1.1	<1	<1	1.1	<10	<10	<2	<1	90	
	2/15/2006	<5	<5	2.6	<5	<5	<5	1.2	2.6	<5	1.5	<5	2.5	1.4	<5	<5	<5	<5	<5	<5	<5	<5	<1	91	
	8/1/2006	<2	<2	3.9	<2	<5	<2	6.7	14	<5	<2	<2	9.5	8.2	<5	2	<2	<2	<2	<5	<5	<5	<5	67	
	11/10/2006	<2	<2	5.5	<2	<5	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50	
	2/7/2007	<2	<2	2.8	<2	<5	<2	16	25	<5	4.9	<2	11	15	<5	2.1	<2	<2	<2	<5	5.6	<5	<5	64	
	11/6/2007	<0.32	<0.26	2.2	<0.27	<0.42	0.4	0.42	0.65	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	<0.32	81	
	2/4/2008	<2	<2	1.6	<2	<5	0.37	<2	0.38	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	0.42	<5	<5	<5	71	
	4/23/2009	<2	<2	5.9	<2	<5	<2	0.84	0.74	<5	<2	<2	<4	<5	<2	<2	<2	<2	1.4	0.51	<5	<5	<5	71	

TABLE IV
Summary of VOC and Oxygenate Results
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
W-12	11/8/2006	<2	<2	5.4	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	7	<2	<2	<2	<2	<5	<5	<5	55
	2/7/2007	<2	<2	6.8	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	50
	5/9/2007	<2	<2	4.3	0.31	<5	0.37	<2	<2	1.1	<2	<2	<2	<4	0.61	<2	<2	<2	<2	1.7	<5	<5	<5	40
	8/8/2007	<2	0.27	3.1	<2	<5	<2	<2	<2	0.85	<2	<2	0.56	<4	0.5	0.38	<2	<2	0.51	<5	<5	<5	0.36	40
	11/6/2007	<0.32	<0.26	2.6	<0.27	<0.42	0.42	<0.26	<0.23	0.47	0.37	<0.36	0.97	<0.9	1.5	2.4	<0.36	<0.27	2.2	<0.95	0.66	<0.25	1.2	58
	2/8/2008	<2	<2	1.8	<2	<5	0.45	<2	<2	<5	0.94	<2	3	<4	1.5	4.3	<2	<2	2.4	<5	2.5	<5	0.82	54
	1/20/2009	<2	<2	5.4	0.48	<5	<2	<2	<2	2.4	<2	<2	0.69	<4	1.4	1.2	<2	<2	1	<5	<5	0.28	<5	32
	4/22/2009	<2	<2	3.7	<2	<5	<2	<2	0.26	1.5	<2	<2	2.1	<4	2.5	5.5	<2	<2	2.2	<5	8.2	<5	0.33	30
	3/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	2.1	-	2.8	9.8	<1.0	<1.0	3.9	<1.0	1.5	-	<1.0	<10
	5/12/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	3	-	3.7	15	<1.0	<1.0	5.8	<1.0	2.1	-	<1.0	<10
	8/5/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	3.5	-	5.1	21	<1.0	<1.0	7.7	<1.0	2.8	-	<1.0	<10
W-7	8/4/2000	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<10	<1	1.2	<1	<10	<1	-	<1	-	-
	2/8/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10000	<10000	<10000	<10000	<10000	-
	7/26/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	-
	5/7/2002	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	-
	9/24/2002	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	-
	10/7/2005	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	-
	2/16/2006	<5	<5	<5	<5	<5	<5	<5	<5	1.1	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
	8/4/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	11/10/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	2/9/2007	<2	<2	<2	<2	<5	<2	<2	<2	2.2	<5	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	5/8/2007	<2	<2	<2	<2	<5	<2	0.35	1.4	<5	0.41	0.45	0.87	2.2	<5	<2	<2	0.41	<2	<5	0.9	<5	<5	<50
	8/10/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	0.25	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	11/6/2007	<0.32	<0.26	<0.32	<0.27	<0.42	<0.28	<0.26	<0.23	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	<0.32	<4.9
	2/4/2008	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	1/13/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<5	<5	<5	<5	<5	<50
	4/21/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	0.31	<2	<2	<4	<5	<2	<2	1.7	<2	<5	<5	<5	<5	<50
	3/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	2	<1.0	<1.0	<1.0	<1.0	<1.0	<10
	5/17/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	2.3	-	<1.0	<10
	8/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	-	<1.0	<10
MW-104A	7/19/1999	<1	1.2	5.6	<1	<1	1.2	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	-
	1/13/2000	<1	<1	6.7	<1	<1	<0.5	<1	<1	5.7	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	-
	8/2/2000	<1	1.8	5.4	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	-
	2/7/2001	<1	1.4	4.2	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	-
	7/25/2001	<1	1.4	3.9	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	-	-
	5/7/2002	<1	1.4	4.3	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	31000	-
MW-104A	9/24/2002	<1	1.6	5.4	1.4	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<2	<1	<1	<1	<1	<10	<10	-	<1	20000	-
	6/30/2004	<5	4J	8.1	2J	1J	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	-	<5	30J

TABLE IV
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	10/7/2005	<1	<1	3.4	<1	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<2	<1	83	
	2/15/2006	<5	<5	2	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	30
	2/7/2007	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	120
	5/8/2007	<2	0.39	1.8	<2	<5	<2	<2	<2	<2	<5	<2	0.37	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	340
	8/8/2007	<2	0.78	2.9	0.51	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	150
	11/5/2007	<0.32	0.72	4	0.71	<0.42	<0.28	<0.26	<0.23	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	<0.32	81	
	2/4/2008	<2	0.79	5.2	0.91	0.44	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	71
	1/16/2009	<2	0.39	4.6	0.57	0.47	<2	<2	<2	0.55	<5	<2	<2	1.2	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	23
	4/22/2009	<2	0.46	4.5	0.62	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	38
	3/3/2010	<1.0	<1.0	3.7	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	8/4/2010	<1.0	<1.0	4.5	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
MW-202	11/1/1993	-	-	-	-	-	-	-	-	7700	<500	2600	6300	-	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	400	7	29	42	-	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	500	10	48	42	-	-	-	-	-	-	-	-	-	-	-	
	12/1/1995	-	-	-	-	-	-	-	-	330	21	51	74	-	-	-	-	-	-	-	-	-	-	-	
	7/31/1996	<0.3	0.37	2	0.34	<0.3	0.58	-	-	<0.3	640	15	<0.5	32	-	-	-	0.54	-	<0.3	-	-	62	-	
	12/17/1996	<50	<50	<50	<50	<50	<50	<50	<50	<10	890	<50	<50	<100	<50	100	-	<50	55	<50	<50	-	<20	-	
	1/21/1998	<5	<5	<5	<5	<5	<5	<5	<5	<5	450	<5	19	21	16	100	<5	<5	57	<5	<10	-	<5	-	
	8/18/1998	<5	<5	<5	<5	<5	<5	<5	<5	<10	280	<5	<5	<5	26	91	<5	<5	49	<5	<10	-	<5	-	
	1/27/1999	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	76	<5	<5	29	130	<5	<5	67	<5	<10	-	<5	-	
	7/19/1999	<2	<2	3.3	<2	<2	<1	<2	<2	<2	<1	36	2.1	3.7	2.4	29	130	<2	<2	62	<20	<20	-	<2	-
	1/11/2000	<1	<1	1.9	<1	<1	<0.5	<1	<1	<0.5	49	<1	2.4	2.3	23	29	<1	2.2	46	<10	<10	-	1.2	-	
	2/7/2000	<1	<1	2.3	<1	<1	<0.5	<1	<1	<1	3.3	25	<1	<1	<1	10	7.7	<1	7.3	9.9	<10	<10	-	<1	-
	8/2/2000	<1	<1	4.6	<1	<1	<0.5	<1	<1	<0.5	41	<1	<1	<1	1.8	23	10	<1	11	35	<10	<10	-	<1	-
	7/24/2001	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	38	<1	<1	<1	1.8	4	16	<1	1.8	6.1	<10	<10	-	<1	-
	5/8/2002	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	330	2.9	2.1	3.8	3.6	32	<1	1.2	12	<10	<10	-	16	66000	
	9/26/2002	<5	<5	<5	<5	<5	<2.5	<5	<5	<2.5	170	7.8	14	52.6	5.6	69	<5	<5	34	<50	<50	-	12	59000	
W-10	11/8/2006	<40	<40	<40	<40	<100	<40	110	360	<100	8200	5000	570	2900	<100	70	<40	<40	51	<100	340	<100	<1000	<1000	
	2/9/2007	<200	<200	<200	<200	<500	<200	<200	280	<500	6400	2200	520	2900	<500	<200	<200	<200	<200	<500	<500	<500	<5000	<5000	
	5/11/2007	<4	<4	6.6	<4	<25	1.4	53	150	3.9	500	160	110	700	5.8	33	<4	8.8	21	<25	150	<25	<25	85	
	8/9/2007	<10	<10	6.4	<10	<25	<10	33	90	3	590	20	82	370	4.8	22	<10	8	16	<25	59	<25	<25	68	
	11/9/2007	<32	<26	<32	<27	<42	<28	55	190	<30	4700	460	330	1500	<25	40	<36	<27	31	<95	210	<25	<32	<490	
	2/8/2008	<200	<200	<200	<200	<500	<200	42	150	<500	7600	310	330	1600	<500	37	<200	<200	<200	<500	<500	<500	<5000	<5000	
	1/21/2009	<200	<200	<200	<200	<500	<200	<200	230	<500	8100	<200	440	1400	<500	<200	<200	<200	<500	<500	<500	<5			

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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
W-17A	2/14/2008	<2	0.92	6.2	<2	0.6	1.4	<2	<2	0.7	<2	<2	<2	<4	0.27	<2	<2	0.47	<2	<5	<5	0.37	<5	140	
	1/16/2009	<2	0.5	1.4	0.39	0.46	<2	<2	0.33	<5	<2	<2	<2	<4	<5	0.27	<2	<2	<5	0.41	<5	<5	54		
	4/22/2009	<2	2.1	7.7	1.9	2.3	0.65	<2	<2	<5	4.5	<2	<2	<4	1.5	5.8	<2	0.51	5.9	<5	<5	<5	<5	57	
	3/3/2010	<1.0	<1.0	1.6	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	14	
	5/12/2010	<1.0	<1.0	4.2	<1.0	<1.0	<0.50	<1.0	<1.0	1.1	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	8/4/2010	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
W-17B	2/14/2008	<2	0.74	1.4	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	30	
	1/16/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	18	
	4/22/2009	<2	0.72	0.71	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	18	
	3/3/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
	5/12/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	8/5/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
W-17C	2/14/2008	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	25	
	1/16/2009	<2	0.49	1.2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	21	
	4/23/2009	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<4	<5	<2	<2	<2	<2	1.1	<5	<5	<5	18	
	3/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
	5/12/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
	8/5/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10	
W-9	11/7/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	2/6/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	5/9/2007	<2	<2	2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	1.9	<5	<5	<5	17	
	8/7/2007	<2	0.78	3	0.31	<5	<2	<2	<2	<5	<2	<2	<2	<4	0.29	<2	<2	<2	0.29	<5	<5	<5	<5	22	
	11/6/2007	<0.32	0.56	3.8	0.31	<0.42	<0.28	<0.26	<0.23	<0.3	<0.28	<0.36	<0.25	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	<0.32	19	
	2/5/2008	<2	0.48	3.4	0.3	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	0.5	<5	<5	23	
	1/15/2009	<2	<2	3.2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	18	
	4/23/2009	<2	<2	2.6	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	1.3	<5	<5	<5	18	
	3/3/2010	<1.0	<1.0	1.9	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
	5/12/2010	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
	8/4/2010	<1.0	<1.0	4	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<10
MW-101	6/1/1988	-	-	-	-	-	-	-	-	620	<5	<5	100	-	-	-	-	-	-	-	-	-	-		
	9/1/1988	-	-	-	-	-	-	-	-	310	10	34	13	-	-	-	-	-	-	-	-	-	-		
	12/1/1988	-	-	-	-	-	-	-	-	490	28	<5	<5	-	-</td										

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	3/1/1993	-	-	-	-	-	-	-	-	200	<5	<5	<25	-	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	62	<5	5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	110	<5	110	<150	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	180	<4	180	<4	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	36	100	45	0.97	67	1.8	-	-	<0.5	90	5.9	6.4	2.9	-	-	-	9.3	-	1.3	-	-	-	
	7/31/1996	24000	41	350	<0.3	52	1.6	-	-	<0.3	130	14	130	14	-	-	-	8.6	-	<0.3	-	-	<10	
	12/17/1996	57	240	90	<25	140	<25	<25	<25	<50	<25	<50	<25	<50	<25	<25	-	<25	<25	<25	<25	-	<2	
	1/19/1998	180	320	62	<5	<50000	<5	<5	<5	<10	65	<5	<5	<5	<5	<5	<5	17	<5	<5	<10	-	<5	
	8/18/1998	34	<5	52	<5	92	<5	<5	<5	<10	140	<5	15	6.7	<5	<5	<5	<5	6.4	<5	<10	-	-	
	1/26/1999	19.3	160	71.9	<5	97.9	<5	<5	<5	<10	68.4	<5	7.08	<5	<5	<5	<5	13.9	<5	<5	<10	-	<5	
	7/19/1999	78	270	57	8.5	150	<1	<2	<2	<1	22	<2	2.4	<2	<2	<2	<2	18	<2	<20	<20	-	<2	
	1/10/2000	210	260	25	3.5	130	2.6	<1	<1	<0.5	9.2	<1	<1	<1	<1	<1	<1	12	<1	<10	<10	-	<1	
	8/3/2000	37	270	33	19	92	3.6	<2	<2	5	24	<2	<2	<2	<2	<2	<2	15	<2	<20	<20	-	<2	
	2/9/2001	9.9	100	21	11	32	<2.5	<5	<5	3.2	26	<5	<5	<5	<5	<5	<5	7.5	<5	<50	<50	-	<5	
	7/26/2001	8.1	100	28	15	30	<5	<1	<1	4.3	25	<1	2.5	<1	<1	<1	<1	8.2	1.1	<10	<10	-	<1	
	5/8/2002	6.2	78	16	5.6	16	<0.5	<1	<1	1.9	17	<1	1.3	<1	<1	<1	<1	2.9	<1	<10	<10	-	<1	
	9/25/2002	4.5	79	14	4.5	18	<0.5	<1	<1	<0.5	31	<1	1.2	1.1	<1	<1	<1	3	1.2	<10	<10	-	<1	
	8/3/2006	<2	34	26	2.4	8.4	<2	<2	<2	<5	89	<2	3.6	<4	<5	<2	<2	<2	2.7	<5	<5	<5	<50	
MW-101	11/10/2006	<2	21	33	2.2	6.5	<2	<2	<2	<5	100	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<50	
	2/12/2007	<8	<8	47	<8	<20	<8	<8	<8	<20	240	<8	<8	<16	<20	<8	<8	<8	4.8	<20	<20	<20	<20	
	5/11/2007	0.37	37	26	2.6	9.2	0.39	<2	<2	0.82	29	0.47	1	<4	1.2	0.46	<2	1.5	1.4	<5	0.76	0.3	<5	
	8/8/2007	0.43	46	21	<2	7.1	0.46	<2	<2	0.72	31	0.49	0.95	<4	1	0.35	<2	1	1.3	<5	<5	<5	<50	
	11/8/2007	<0.32	6.3	31	<0.27	5.7	<0.28	<0.26	<0.26	0.24	<0.3	62	0.9	1.7	<0.9	1.2	0.6	<0.36	1.2	2	<0.95	<0.41	<0.25	<0.32
	11/8/2007	<0.32	6.3	31	<0.27	5.7	<0.28	<0.26	<0.26	0.24	<0.3	62	0.9	1.7	<0.9	1.2	0.6	<0.36	1.2	2	<0.95	<0.41	<0.25	<0.32
MW-104	6/1/1988	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1988	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1988	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1989	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	6/1/1989	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1989	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1989	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1990	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	6/1/1990	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1990	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1990	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	6/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	9/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	12/1/1991	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	
	3/1/1992	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	6/1/1992	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1992	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	5/1/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	5/25/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	11/1/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1994	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	6/1/1994	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	-	<5	<5	<5	<15	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	-	3	<2	<2	<2	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	-	0.78	-	-	-	-	-	-	3	0.6	<5	<5	-	-	-	2.7	-	-	-	-	-	
	7/31/1996	<0.3	0.54	1.5	<0.3	<0.3	0.51	-	-	<0.3	2.2	1.8	<1	2.7	-	-	0.58	-	<0.3	-	-	<10	-	
	12/16/1996	<1	<1	2.7	<1	<1	<1	<1	<1	<1	3.2	4.2	<1	<1	<2	2.9	5.2	-	<1	10	<1	<1	-	<2
	1/20/1998	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	<5
	8/18/1998	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	-
	1/27/1999	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	-	<5
MW-205	6/1/1988	-	-	-	-	-	-	-	-	-	13	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1988	-	-	-	-	-	-	-	-	-	27	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1988	-	-	-	-	-	-	-	-	-	120	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1989	-	-	-	-	-	-	-	-	-	40	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	6/1/1989	-	-	-	-	-	-	-	-	-	120	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1989	-	-	-	-	-	-	-	-	-	81	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1989	-	-	-	-	-	-	-	-	-	170	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1990	-	-	-	-	-	-	-	-	-	140	<5	<5	<5	-	-	-	-	-	-	-	-	-	
MW-205	6/1/1990	-	-	-	-	-	-	-	-	-	56	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1990	-	-	-	-	-	-	-	-	-	45	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1990	-	-	-	-	-	-	-	-	-	47	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1991	-	-	-	-	-	-	-	-	-	40	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	6/1/1991	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1991	-	-	-	-	-	-	-	-	-	43	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1991	-	-	-	-	-	-	-	-	-	85	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1992	-	-	-	-	-	-	-	-	-	35	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	6/1/1992	-	-	-	-	-	-	-	-	-	6	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	9/1/1992	-	-	-	-	-	-	-	-	-	5	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	-	10	<5	<5	<5	-	-	-	-	-	-	-	-	-	
	3/1/1993	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	

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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA	
	7/26/2001	<1	<1	<1	<1	<1	<5	<1	<1	<0.5	0.67	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	-	
	5/7/2002	<1	<1	<1	<1	<1	<5	<1	<1	<0.5	0.51	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	<10000
	9/24/2002	<1	<1	<1	<1	<1	<5	<1	<1	<0.5	0.64	<1	<1	<2	<1	<1	<1	<1	<1	<1	<10	<10	-	<1	<10000
	7/1/2004	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.9J	1.8	0.72	1.42	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100
	10/6/2005	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<2	<1	<10
	2/16/2006	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<10
	8/4/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50
	11/10/2006	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50
	2/9/2007	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<50
	5/8/2007	<2	<2	<2	<2	<5	<2	<2	0.23	<5	0.49	0.73	0.33	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	8/7/2007	<2	<2	<2	<2	<5	<2	<2	0.3	<5	0.49	0.82	0.44	0.94	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	11/6/2007	<0.32	<0.26	<0.32	<0.27	<0.42	<0.28	<0.26	<0.23	<0.3	0.52	0.75	0.4	<0.9	<0.25	<0.27	<0.36	<0.27	<0.25	<0.95	<0.41	<0.25	<0.32	7.5	
	2/4/2008	<2	<2	<2	<2	<5	<2	<2	0.25	<5	0.46	0.81	0.39	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	1/13/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	<2	<2	<2	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	4/21/2009	<2	<2	<2	<2	<5	<2	<2	<2	<5	0.45	0.82	0.37	<4	<5	<2	<2	<2	<2	<5	<5	<5	<5	<50	
	3/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	0.85	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	5/17/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	0.5	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
	8/4/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	0.8	<0.50	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	
MW-201	6/1/1988	-	-	-	-	-	-	-	-	1000	150	<5	250	-	-	-	-	-	-	-	-	-	-		
	9/1/1988	-	-	-	-	-	-	-	-	520	210	110	400	-	-	-	-	-	-	-	-	-	-		
	12/1/1988	-	-	-	-	-	-	-	-	420	65	19	100	-	-	-	-	-	-	-	-	-	-		
	3/1/1989	-	-	-	-	-	-	-	-	210	27	24	47	-	-	-	-	-	-	-	-	-	-		
	6/1/1989	-	-	-	-	-	-	-	-	350	<5	<5	50	-	-	-	-	-	-	-	-	-	-		
	9/1/1989	-	-	-	-	-	-	-	-	830	100	32	210	-	-	-	-	-	-	-	-	-	-		
	12/1/1989	-	-	-	-	-	-	-	-	510	76	24	170	-	-	-	-	-	-	-	-	-	-		
	3/1/1990	-	-	-	-	-	-	-	-	350	38	29	85	-	-	-	-	-	-	-	-	-	-		
	6/1/1990	-	-	-	-	-	-	-	-	820	49	84	83	-	-	-	-	-	-	-	-	-	-		
	9/1/1990	-	-	-	-	-	-	-	-	340	15	20	73	-	-	-	-	-	-	-	-	-	-		
	12/1/1990	-	-	-	-	-	-	-	-	240	12	7	55	-	-	-	-	-	-	-	-	-	-		
	3/1/1991	-	-	-	-	-	-	-	-	500	<5	<5	240	-	-	-	-	-	-	-	-	-	-		
	6/1/1991	-	-	-	-	-	-	-	-	530	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	9/1/1991	-	-	-	-	-	-	-	-	370	<5	<5	130	-	-	-	-	-	-	-	-	-	-		
	12/1/1991	-	-	-	-	-	-	-	-	340	10	9	80	-	-	-	-	-	-	-	-	-	-		
	6/1/1992	-	-	-	-	-	-	-	-	25	<5	<5	<5	-	-	-	-	-	-	-	-	-	-		
	9/1/1992	-	-	-	-	-	-	-	-	350	<5	<5	130	-	-	-	-	-	-	-	-	-	-		
	12/1/1992	-	-	-	-	-	-	-	-	1150	<5	<5	560	-	-	-	-	-	-	-	-	-	-		
	3/1/1993	-	-	-	-	-	-	-	-	560	77	<50	410	-	-	-	-	-	-	-	-	-	-		
	12/1/1994	-	-	-	-	-	-	-	-	1300	66	500	560	-	-	-	-	-	-	-	-	-	-		
	3/1/1995	-	-	-	-	-	-	-	-	290	<5	<5	<15	-	-	-	-	-	-	-	-	-	-		

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
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Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
MW-201	9/1/1995	-	-	-	-	-	-	-	-	1100	28	130	140	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	58	110	44	1.7	87	4.4	-	-	440	42	120	94	-	-	-	9.4	-	0.7	-	-	-	-	
	7/31/1996	110	120	34	<0.3	98	2.7	-	-	<0.3	480	20	32	25	-	-	-	9.4	-	<0.3	-	-	<10	
	12/17/1996	210	210	89	<10	170	<10	28	140	<20	110	12	96	121	<10	21	-	<10	21	<10	<10	-	<10	
	1/21/1998	160	180	71	5.5	74	<5	9.9	20	<10	250	14	87	17	<5	21	<5	9.9	19	<5	11	-	<5	
	8/18/1998	16	120	63	<5	46	<5	<5	<5	<10	440	8.6	20	13	<5	<5	<5	6.3	5.1	<5	11	-	-	
	7/19/1999	40	160	63	12	61	<2.5	15	53	<2.5	160	29	69	54.6	<5	25	<5	9.3	21	<50	<50	-	<5	
	1/12/2000	<5	38	43	<5	19	<2.5	<5	32	<2.5	520	14	53	16	<5	15	<5	<5	16	<50	<50	-	<6	
	8/4/2000	<5	32	76	<5	19	<2.5	<5	33	<2.5	570	15	61	21	<5	12	<5	<5	12	<50	<10	-	<7	
	2/9/2001	<10	13	100	<10	22	<5	<10	24	<5	310	12	130	14	<10	32	<10	<10	26	<100	<100	-	<8	
	7/26/2001	<10	8	57	6.8	13	<5	2.5	17	<10	180	9.6	56	24.7	33	16	<20	23	14	<100	<100	-	<10	
	5/9/2002	<2	14	33	4.2	6.4	<1	3.8	5.6	1.1	120	6.6	45	20	2.1	8.6	<2	<2	8.8	<20	<20	-	5.1	<20000
	9/26/2002	<1	29	27	3.3	7.2	<0.5	14	12	1.4	11	11	68	34.3	2.2	12	<1	<1	10	<10	<1	-	<1	<10000
	6/30/2004	<5	<5	21	<5	<5	<5	12	5.4	2J	120	12	210	71	5J	24	<5	<5	27	<5	16	-	<5	<100
	10/7/2005	<5	<5	49	<5	<5	34	16	33	<2.5	740	37	470	91	16	86	<5	<5	85	<50	120	<10	<5	130
	2/15/2006	<5	1.6	8.1	<5	<5	<5	<5	1.2	<5	128	2.5	15	6.3	1.1	3.3	<5	<5	5.3	<5	<5	<1	<1	20
	8/2/2006	<2	13	13	<2	<5	<2	<2	<2	<5	73	<2	8.2	4.4	<5	3	<2	<2	4.3	<5	<5	<5	<5	<50
	11/9/2006	<2	30	25	<2	5.1	<2	<2	4.8	<5	58	3.4	49	13	<5	16	<2	<2	13	<5	22	<5	<5	<50
	2/7/2007	<2	7.4	25	<2	<5	<2	<2	<2	<5	94	<2	8.6	5.4	<5	2.3	<2	<2	3	<5	<5	<5	<5	<50
	5/9/2007	<2	8.5	38	<2	3.1	0.83	<2	<2	0.67	47	0.75	4	2.8	0.69	1.3	<2	0.4	2.7	1.7	<5	<5	<5	<50
	8/8/2007	<2	22	31	<2	3.2	1	0.42	0.41	0.9	44	0.75	5.1	3.5	1.2	2.3	<2	0.37	5.3	<5	<5	<5	<5	<50
	11/6/2007	<0.32	22	38	0.91	4.5	1.1	8.4	6.3	1.6	110	3.9	57	36	2.2	9.9	<0.36	0.52	13	<0.95	25	<0.25	<0.32	92
	2/7/2008	<2	36	33	<2	<5	<2	<2	<2	<5	39	<2	3.2	<4	<5	<2	<2	<2	2.7	<5	<5	<5	<5	<50
	1/20/2009	<2	<2	16	0.6	0.73	2.1	1.7	2.4	1.6	97	3.9	17	20	1.6	5.3	<2	<2	5.8	<5	<5	<5	<5	44
	4/28/2009	<2	<2	12	<2	<5	2.2	3.5	0.7	0.79	70	1.1	15	1.2	1.5	7.1	<2	<2	10	<5	<5	<5	<5	12
MW-504	12/1/1993	-	-	-	-	-	-	-	-	11000	1300	1800	9200	-	-	-	-	-	-	-	-	-	-	
	6/1/1994	-	-	-	-	-	-	-	-	8600	2100	<500	8100	-	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	5800	700	840	7600	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	5200	1100	1200	12000	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	8000	1300	2200	11000	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	-	14	-	-	-	-	-	2700	730	800	2600	-	-	-	13	-	-	-	-	-	-	
	8/1/1996	<1	0.78	20	0.46	<1	20	-	-	1.1	3400	1400	960	3700	-	-	4	-	<1	-	-	370	-	
	12/18/1996	<250	<250	<250	<250	<250	<250	2100	5000	<500	6000	2800	1000	3300	<250	350	-	<250	<250	<250	2300	-	<50	
	1/21/1998	<250	<250	<250	<250	<250	<250	340	800	<500	4600	940	750	2080	<250	<250	<250	<250	<250	<250	<250	360	-	<250
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/28/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/19/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/10/2000	NS	NS	NS																				

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	2/6/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	-
	7/24/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	-
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS
	9/23/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS
	2/16/2006	<50	<50	<50	<50	<50	<50	106	152	<50	675	76	262	511	<50	30	<50	<50	38	<50	82	<10	13	<100
	8/3/2006	<2	<2	2	<2	<5	3.9	90	98	<5	1500	51	150	490	5.4	28	<2	<2	38	<5	54	<5	9.3	<50
	11/10/2006	<40	<40	<40	<40	<100	<40	98	49	<100	1000	<40	130	260	<100	<40	<40	<40	<40	<100	<100	<100	<100	<1000
	2/9/2007	<2	<2	<2	<2	<5	<2	64	38	<5	140	<2	13	130	<5	6.5	<2	<2	18	<5	49	<5	<5	98
	5/11/2007	<40	<40	<40	<40	<100	<40	110	130	<100	1500	7.2	230	400	10	59	<40	<40	66	<100	80	<100	<100	<1000
	8/10/2007	<20	<20	<20	<20	<50	<20	89	95	<50	1200	6.6	130	350	6.9	43	<20	<20	54	<50	54	<50	5.1	<500
	11/8/2007	<3.2	<2.6	<3.2	<2.7	<4.2	<2.8	100	85	<3	960	7.5	120	270	5.6	30	<3.6	<2.7	44	<9.5	27	<2.5	4.9	<49
	2/8/2008	<20	<20	<20	<20	<50	3.9	110	89	<50	760	7.5	110	240	7.2	45	<20	<20	55	<50	84	<50	6.4	110
MW-206	6/1/1988	-	-	-	-	-	-	-	-	5800	2400	2100	4900	-	-	-	-	-	-	-	-	-	-	
	9/1/1988	-	-	-	-	-	-	-	-	4200	1000	2000	6600	-	-	-	-	-	-	-	-	-	-	
	12/1/1988	-	-	-	-	-	-	-	-	4300	920	2100	5500	-	-	-	-	-	-	-	-	-	-	
	3/1/1989	-	-	-	-	-	-	-	-	2700	3200	2400	12000	-	-	-	-	-	-	-	-	-	-	
	6/1/1989	-	-	-	-	-	-	-	-	3100	1200	2300	8600	-	-	-	-	-	-	-	-	-	-	
MW-206	9/1/1989	-	-	-	-	-	-	-	-	4500	620	2400	6500	-	-	-	-	-	-	-	-	-	-	
	12/1/1989	-	-	-	-	-	-	-	-	3200	1000	2000	6600	-	-	-	-	-	-	-	-	-	-	
	3/1/1990	-	-	-	-	-	-	-	-	3700	1700	2600	9400	-	-	-	-	-	-	-	-	-	-	
	6/1/1990	-	-	-	-	-	-	-	-	3700	960	2000	6300	-	-	-	-	-	-	-	-	-	-	
	9/1/1990	-	-	-	-	-	-	-	-	5100	2100	2300	6800	-	-	-	-	-	-	-	-	-	-	
	12/1/1990	-	-	-	-	-	-	-	-	7100	2100	2400	8100	-	-	-	-	-	-	-	-	-	-	
	3/1/1991	-	-	-	-	-	-	-	-	4900	2600	2200	9500	-	-	-	-	-	-	-	-	-	-	
	6/1/1991	-	-	-	-	-	-	-	-	5220	1080	2400	6880	-	-	-	-	-	-	-	-	-	-	
	9/1/1991	-	-	-	-	-	-	-	-	4500	2100	2000	5400	-	-	-	-	-	-	-	-	-	-	
	12/1/1991	-	-	-	-	-	-	-	-	3400	720	2500	4740	-	-	-	-	-	-	-	-	-	-	
	3/1/1992	-	-	-	-	-	-	-	-	2000	470	2500	4870	-	-	-	-	-	-	-	-	-	-	
	6/1/1992	-	-	-	-	-	-	-	-	3200	420	2100	2100	-	-	-	-	-	-	-	-	-	-	
	9/1/1992	-	-	-	-	-	-	-	-	9900	1400	3200	7300	-	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	13000	2000	6000	13000	-	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	8400	4900	1800	9500	-	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	9000	720	2000	5800	-	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	6200	800	1600	3600	-	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	-	-	-	-	-	-	-	110	16	32	100	-	-	-	-	-	-	-	-	-	-	
	7/31/1996	<0.3	1.4	20	<0.3	22	5.8	-	<0.3	570	110	420	490	-	-	8.8	-	<0.3	-	-	510	-	-	
	12/18/1996	<100	<100	<100	<100	<100	<100	140	190	<200	2200	<100	1200	340	<100	120	-	<100	<100	<100	130	-	<20	-
	1/21/1998	<5	<5	130	<5	82	<5	12	35	<10	1500	290	1600	780	11	220	50	<5	85	<5	59	-	<5	-
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
MW-501	3/1/1995	-	-	-	-	-	-	-	-	-	4200	230	1000	2700	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	-	2400	270	<200	<200	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	-	8.5	-	1	3.2	-	-	-	1600	100	880	2200	-	-	-	1.6	-	1	-	-	-	
	7/31/1996	<0.3	0.39	7.2	<0.3	<0.3	1.3	-	-	<0.3	1700	73	220	1100	-	-	-	0.81	-	<0.3	-	-	180	
	12/18/1996	<50	<50	<50	<50	<50	<50	130	310	<100	1200	<50	510	650	<50	200	-	<50	92	<50	<50	-	<10	
	1/21/1998	<5	<5	<5	<5	<5	<5	<5	9.3	<10	260	<5	11	23	<5	6.1	<5	<5	<5	<5	<10	-	<5	
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	
	1/26/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	
MW-501-A	7/19/1999	<25	<25	<25	<25	<13	<13	<25	<25	<13	1300	<25	<25	25	<25	52	<25	<25	41	<250	<250	-	<25	-
	1/13/2000	<10	<10	<10	<10	<10	<5	<10	<10	<5	1600	18	<10	23	<10	42	<10	<10	34	<100	<100	-	<10	-
	8/2/2000	<10	<10	<10	<10	<10	<5	<10	<10	<6	980	11	12	14	<10	150	<10	<10	85	<100	<10	-	-	-
	2/7/2001	<10	<10	<10	<10	<10	<5	<10	<10	6.5	680	<10	10	<10	<10	180	<10	<10	90	<100	<100	-	<10	-
	7/25/2001	<10	<10	<10	<10	<10	<5	<10	<10	<5	140	<10	<10	<10	<10	210	<10	13	98	<100	<100	-	85	-
	5/8/2002	<2	<2	<2	<2	<2	<1	<2	<2	2.4	690	4.3	6.8	5.9	9.3	190	<2	4.2	100	<20	<20	-	130	<20000
	9/26/2002	<10	<10	<10	<10	<10	<5	<10	<10	5.5	520	<10	<10	<20	24	380	<10	<10	180	<100	<100	-	570	<100000
MW-503	6/1/1988	-	-	-	-	-	-	-	-	-	600	140	340	600	-	-	-	-	-	-	-	-	-	
	9/1/1988	-	-	-	-	-	-	-	-	-	800	280	300	910	-	-	-	-	-	-	-	-	-	
	12/1/1988	-	-	-	-	-	-	-	-	-	1500	570	380	960	-	-	-	-	-	-	-	-	-	
	3/1/1989	-	-	-	-	-	-	-	-	-	400	190	360	750	-	-	-	-	-	-	-	-	-	
	6/1/1989	-	-	-	-	-	-	-	-	-	600	340	630	1200	-	-	-	-	-	-	-	-	-	
	9/1/1989	-	-	-	-	-	-	-	-	-	990	550	200	850	-	-	-	-	-	-	-	-	-	
	12/1/1989	-	-	-	-	-	-	-	-	-	270	180	180	560	-	-	-	-	-	-	-	-	-	
	3/1/1990	-	-	-	-	-	-	-	-	-	310	140	140	280	-	-	-	-	-	-	-	-	-	
	6/1/1990	-	-	-	-	-	-	-	-	-	34	24	110	190	-	-	-	-	-	-	-	-	-	
	9/1/1990	-	-	-	-	-	-	-	-	-	170	110	140	270	-	-	-	-	-	-	-	-	-	
	12/1/1990	-	-	-	-	-	-	-	-	-	2100	1300	100	2300	-	-	-	-	-	-	-	-	-	
	3/1/1991	-	-	-	-	-	-	-	-	-	900	650	250	2000	-	-	-	-	-	-	-	-	-	
	6/1/1991	-	-	-	-	-	-	-	-	-	1040	700	330	1230	-	-	-	-	-	-	-	-	-	
	12/1/1992	-	-	-	-	-	-	-	-	-	3300	750	340	1580	-	-	-	-	-	-	-	-	-	
	3/1/1993	-	-	-	-	-	-	-	-	-	2900	400	<250	1880	-	-	-	-	-	-	-	-	-	
	12/1/1994	-	-	-	-	-	-	-	-	-	240	22	66	79	-	-	-	-	-	-	-	-	-	
	3/1/1995	-	-	-	-	-	-	-	-	-	390	55	100	190	-	-	-	-	-	-	-	-	-	
	9/1/1995	-	-	-	-	-	-	-	-	-	530	93	130	180	-	-	-	-	-	-	-	-	-	
	12/13/1995	-	85	38	1.2	120	6.5	-	-	1.4	340	79	190	200	-	-	-	15	-	1	-	-	-	
	7/31/1996	90	130	36	<0.3	150	3.1	-	-	<0.3	150	49	25	84	-	-	-	15	-	<0.3	-	-	<10	
	12/18/1996	14	270	40	<10	320	<10	23	63	<20	210	19	140	56	12	48	-	<10	44	<10	28	-	<20	
	1/21/1998	<5	460	67	27	210	<5	14	5.8	<10	210	31	280	63	12	68	<5	9.6	53	<5	17	-	<5	

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	8/19/1998	<5	63	41	71	37	<5	<5	5	<10	72	7.9	53	7.6	<5	14	<5	<5	11	<5	5.3	-	-	-
W-3	11/1/1989	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	-	0.292	19	2.6	7.6	13	-	-	<0.5	0.08681	-	<0.5	-	-	-	
	1/1/1990	<0.5	<0.5	-	<1	<0.5	<0.5	-	-	<2	<0.5	<0.5	<0.5	3.3	-	-	<1	1	-	<2	-	-	-	
	3/1/1990	<0.5	<0.5	-	<1	<0.5	<0.5	-	-	<2	5.3	4.5	<0.5	<2	-	-	<1	0.5	-	<2	-	-	-	
	4/1/1990	<0.5	<0.5	<5	<1	<0.5	<0.5	-	-	<2	3.4	4.5	<1	<1	-	-	<1	<0.5	-	<2	-	-	-	
	12/18/1996	<25	<25	<25	<25	<25	<25	<25	<25	<50	590	<25	<25	<50	<25	<25	<25	-	<25	<25	<25	<25	-	<10
	1/13/1998	<5	<5	<5	<5	<5	<5	<5	<5	51	280	<5	<5	<5	6	16	<5	6	27	<5	<10	-	<5	-
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
MW-600	2/20/1991	-	-	-	-	-	-	-	-	18000	9200	1300	9900	-	-	-	-	-	-	-	-	-	-	-
	12/13/1995	-	-	-	-	-	-	-	-	23000	40000	18000	101000	-	-	-	-	-	-	-	-	-	-	-
	8/1/1996	<1	0.53	3.8	<1	<1	5.5	-	-	<1	14000	15000	3500	20000	-	-	-	0.36	-	<1	-	-	<10	-
	12/19/1996	<500	<500	<500	<500	<500	<500	580	1800	<1000	14000	15000	1800	9100	<500	<500	-	<500	<500	<500	<500	<500	-	<10
	1/22/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/28/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
MW-600A	7/19/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/10/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/31/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	2/6/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/24/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	9/23/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
MW-601	2/20/1991	-	-	-	-	-	-	-	-	12000	4900	1900	11200	-	-	-	-	-	-	-	-	-	-	-
	12/13/1995	-	-	-	-	-	-	-	-	18000	17000	130000	100000	-	-	-	-	-	-	-	-	-	-	-
	8/1/1996	<1	0.51	4.4	<1	<1	2.9	-	-	1.9	12000	1400	4600	16000	-	-	-	1.4	-	<1	-	-	<10	-
	12/19/1996	<500	<500	<500	<500	<500	<500	<500	1100	<1000	10000	<500	1600	4000	<500	<500	-	<500	<500	<500	<500	<500	-	<10
	1/22/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/28/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
MW-601A	7/19/1999	<5000	<5000	<5000	<5000	<5000	<5000	<2500	<5000	<5000	<25000	18000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	-	11000
	1/13/2000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<500	22000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	-	22000
	8/3/2000	<200	<200	<200	<200	<200	<200	<200	<200	<100	21000	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	-	5600
	2/7/2001	<50	<50	<50	<50	<50	<25	<50	<50	<25	16000	63	97	<50	<50	130	<50	<50	57	<500	<500	<500	-	1200
	7/24/2001	<100	<100	<100	<100	<100	<50	<100	<100	<50	15000	<100	110	<100	<100	1.8	<100	<100	<100	<100	<100	<100	<100	-
MW-601A	5/9/2002	<100	<100	<100	<100	<100	<50	<100	<100	<50	12000	<100	<100	<100	<100	170	<100	<100	<100	<100	<1000	<1000	-	3500
																							NS	

TABLE IV
Summary of VOC and Oxygenate Results
Former CENCO Refinery
Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
	9/26/2002	<100	<100	<100	<100	<100	<50	<100	<100	<50	8000	<100	590	270	<100	200	<100	<100	<100	<1000	<1000	-	4000	NS
MW-A	2/20/1991	-	-	-	-	-	-	-	-	-	17000	14000	1800	12500	-	-	<250	-	-	-	-	-	-	
MW-B	2/25/1991	-	-	-	-	-	-	-	-	-	3500	30	180	467	-	-	<0.5	-	-	-	-	-	-	
MW-C	3/31/1995	-	-	-	-	-	-	-	-	-	0.6	14	<0.5	2.7	-	-	-	-	-	-	-	-	-	
	7/11/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	10/5/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	12/8/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	3/7/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	
	6/17/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	<20	-	
MW-D	3/31/1995	-	-	-	-	-	-	-	-	-	<0.5	6.6	<0.5	1.6	-	-	-	-	-	-	-	-	-	-
	7/11/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	10/5/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	12/8/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	3/7/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	
	6/17/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	<20	-	
MW-E	3/31/1995	-	-	-	-	-	-	-	-	-	9.1	6.6	1.1	2.3	-	-	-	-	-	-	-	-	-	-
	7/11/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	10/5/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	12/8/1995	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.6	-	-	-	-	-	-	-	-	-	
	3/7/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	
	6/17/1996	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	<20	-	
MW-I	2/19/1991	-	-	-	-	-	-	-	-	-	9200	2400	1500	8700	-	-	<50	-	-	-	-	-	-	-
W-2	11/1/1989	<0.5A	<0.5A	-	<0.5A	<0.5A	<0.5A	-	-	75A	78	6.5	6.5	5	-	-	<0.5	0.16875	-	<0.5A	-	-	-	-
	3/1/1990	<0.5	<0.5	-	<1	<0.5	<0.5	-	-	<2	62	<0.5	<0.5	<2	-	-	<1	<0.5	-	<2	-	-	-	-
	4/1/1990	<2.5	<2.5	13	<5	<2.5	<2.5	-	-	5.9	83	26	4	1.5	-	-	<1	3	-	<5	-	-	-	-
	12/18/1996	<2	<2	13	<2	<2	<2	<2	<2	11	56	<2	<2	<4	<2	12	-	<2	18	<2	<2	-	<2	-
	1/14/1998	<5	<5	17	<5	<5	<5	<5	<5	27	85	<5	<5	<5	<5	6	<5	<5	15	<5	<10	-	<5	-
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-

NOTES:

PCE - Tetrachloroethylene

TCE - Trichloroethylene

TABLE IV
 Summary of VOC and Oxygenate Results
 Former CENCO Refinery
 Santa Fe Springs, CA

Well	Sample Date	PCE	TCE	c1,2-DCE	t1,2-DCE	1,1-DCE	1,2-DCA	1,3,5-TMB	1,2,4-TMB	VC	B	T	E	X	sBUT	nPRO	CBNZ	1,1 DCA	ISO-P	MC	NAP	DIPE	MTBE	TBA
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c1,2-DCE - cis-1,2-Dichloroethene

t1,2-DCE - trans-1,2-Dichloroethene

1,1-DCE - 1,1-Dichloroethene

1,2-DCA - 1,2-Dichloroethane

1,3,5-TMB - 1,3,5-Trimethylbenzene

1,2,4-TMB - 1,2,4-Trimethylbenzene

VC - Vinyl Chloride

B- Benzene

T - Toluene

E - Ethylbenzene

X - Xylenes, total

nBUT - n-Butylbenzene

sBUT - sec-Butylbenzene

tBUT - tert-Butylbenzene

nPRO - n-Propylbenzene

CBNZ - Chlorobenzene

CETH - Chloroethane

CMETH - Chloromethane

1,1 DCA - 1,1-Dichloroethane

1,2 DPA - 1,2-Dichloropropane

ISO-P - Isopropylbenzene

p-ISO - p-Isopropyltoluene

MC - Methylene Chloride

NAP - Naphthalene

TRIM - Trichlorofluoromethane

PMXY - p/m-Xylenes

OXYL -o-Xylene

DIPE - Diisopropyl Ether (DIPE)

MTBE - Methyl-tert-Butyl Ether (MTBE)

TBA - tert-Butyl Alcohol (TBA)

ND - Not Detected above laboratory detection limits

ug/L - Micrograms per litre

NA - Information not available

-- Not Tested

J - Indicates concentration above method detection limit but below practical quantitation limit

Table V
Summary of Biodegradation Parameters
Former Cenco Refinery
Santa Fe Springs, California
3rd Quarter 2010

Well ID	Sample ID	Sample Date	Laboratory Analytical Methods						Field Test Methods		
			Methane (mg/L)	Nitrate-N (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)	Ferrous Iron (mg/L)	Sulfide* (µg/L)	pH (SU)	DO (mg/L)	ORP (mV)
MW-101	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-103	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-104A	LL_MW104A_080410_01	8/4/2010	92.8	ND<0.5	87	808	ND<0.1	NA	7.65	2.32	205
MW-105	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-106A	LL_MW106A_080610_01	8/6/2010	NA	NA	NA	NA	NA	ND<10	8.05	4.52	210
MW-107A	LL_MW107A_080610_01	8/6/2010	NA	NA	NA	NA	NA	450	8.10	3.25	-280
MW-107A	LL_MW107A_080610_02	8/6/2010	NA	NA	NA	NA	NA	190	8.10	3.25	-280
MW-201	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-202	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-203	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-204	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-205	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-501A	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-502	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-503B	LL_MW503B_080910_01	8/9/2010	71.8	ND<0.5	10.3	752	ND<0.1	NA	7.60	2.72	147
MW-504	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-600A	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-601A	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-603	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-604	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-605	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-606	NS - Dry	-	-	-	-	-	-	-	-	-	-
MW-607	NS - Dry	-	-	-	-	-	-	-	-	-	-
W-1	LL_W1_080610_01	8/6/2010	NA	NA	NA	NA	NA	ND<10	7.52	3.22	-22
W-4	LL_W4_080610_01	8/6/2010	NA	NA	NA	NA	NA	ND<10	7.89	3.37	-56
W-3A	NS - Dry	-	-	-	-	-	-	-	-	-	-
W-7	LL_W7_080410_01	8/4/2010	NA	NA	NA	NA	NA	NA	NM	NM	NM
W-7	LL_W7_080410_02	8/4/2010	NA	NA	NA	NA	NA	NA	NM	NM	NM
W-8	LL_W8_080410_01	8/4/2010	NA	NA	NA	NA	NA	NA	NM	NM	NM
W-9	LL_W9_080410_01	8/4/2010	NA	NA	NA	NA	NA	NA	7.36	3.36	-60

Table V
Summary of Biodegradation Parameters
Former Cenco Refinery
Santa Fe Springs, California
3rd Quarter 2010

Well ID	Sample ID	Sample Date	Laboratory Analytical Methods						Field Test Methods		
			Methane (mg/L)	Nitrate-N (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)	Ferrous Iron (mg/L)	Sulfide* (µg/L)	pH (SU)	DO (mg/L)	ORP (mV)
W-10	LL_W10_080910_01	8/9/2010	NA	NA	NA	NA	NA	NA	NM	NM	NM
W-11	NS - FP	-	-	-	-	-	-	-	-	-	-
W-12	LL_W12_080510_01	8/5/2010	NA	NA	NA	NA	NA	NA	7.61	2.65	-100
MW-14A	LL_MW14A_080210_01	8/2/2010	NA	NA	NA	NA	NA	NA	8.02	3.12	145
MW-14B	LL_MW14B_080210_01	8/2/2010	NA	NA	NA	NA	NA	NA	7.80	4.60	33
MW-14C	LL_MW14C_080210_01	8/2/2010	NA	NA	NA	NA	NA	NA	7.60	3.55	128
MW-15A	LL_MW15A_080210_01	8/2/2010	NA	NA	NA	NA	NA	NA	7.39	1.96	-145
MW-15B	LL_MW15B_080310_01	8/3/2010	NA	NA	NA	NA	NA	NA	7.74	3.42	107
MW-15C	LL_MW15C_080310_01	8/3/2010	NA	NA	NA	NA	NA	NA	7.60	2.72	108
MW-16A	LL_MW16A_080910_01	8/9/2010	NA	NA	NA	NA	NA	NA	7.98	2.65	106
MW-16B	LL_MW16B_080910_01	8/9/2010	NA	NA	NA	NA	NA	NA	8.01	2.88	-217
MW-16C	LL_MW16C_080910_01	8/9/2010	NA	NA	NA	NA	NA	NA	8.02	2.57	-165
MW-16C	LL_MW16C_080910_02	8/9/2010	NA	NA	NA	NA	NA	NA	8.02	2.57	-165
W-17A	LL_W17A_080410_01	8/4/2010	NA	NA	NA	NA	NA	NA	7.78	2.35	62
W-17B	LL_W17B_080510_01	8/5/2010	NA	NA	NA	NA	NA	NA	7.96	2.31	-189
W-17C	LL_W17C_080510_01	8/5/2010	NA	NA	NA	NA	NA	NA	8.01	2.64	-167
EW-1	NS - FP	-	-	-	-	-	-	-	-	-	-

Notes:

Methane by U.S. Environmental Protection Agency (EPA) Method RSK-175M

Nitrate (as N) and sulfate by EPA Method 300.0

Total alkalinity (as calcium carbonate [CaCO₃]) by Standard Method 2320B

Ferrous iron by Standard Method 3500-FeD

NA not analyzed

NS - I not sampled - well inaccessible

NS - FP not sampled - free product present

NS - Dry not sampled - well is dry

DO dissolved oxygen

mg/L milligram(s) per liter

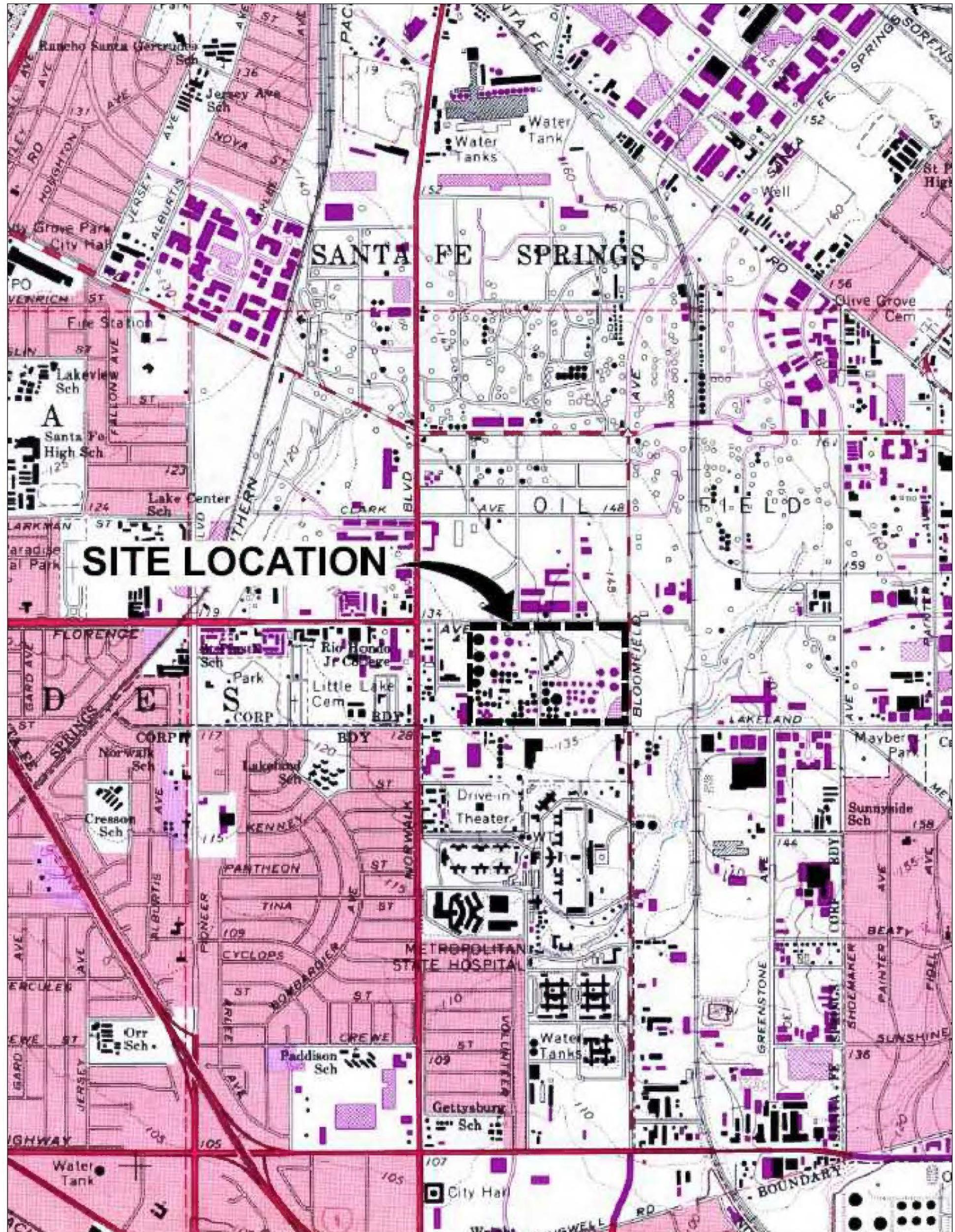
mV millivolts

ND not detected at the indicated reporting limit

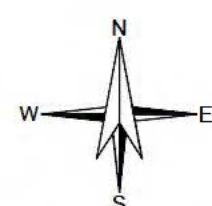
ORP oxidation-reduction potential

SU standard units

* sulfide was analyzed by SunStar due to the belief that the analyte was responsible for affecting the analytical equipment



SOURCE OF BASE MAP
U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



CENCO REFINING COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

SCALE: NOT TO SCALE

DRAWN BY: RLM

FIGURE 1

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

Appendix A

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. EW-1 Walker
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May have product Yes it does
 WELL CONDITION:

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER	104.88	(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS	* 0.78 (104.88 - 104.10)	(ft.)

WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	*
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

* FREE PRODUCT - NOT SAMPLED

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-101 Site
 SAMPLED BY: Frane Sosic / RH

WELL NOTES: May Be Dry
 WELL CONDITION:

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-103 Site
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry
 WELL CONDITION:

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-3-2010 / 8-4-2010 (Sampled)

WELL NO. MW-104A Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	100.08 (ft.)
DEPTH TO WATER	93.27 (ft.)
HEIGHT OF WATER COLUMN	6.81 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 44946 (gal)
PURGE VOLUME	x 3 = 13.4838 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny / ~80°F/ slight breeze

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
5			7.65	2.534		2.32	25.65		205	Clear	Slight HC
*10			—	—		—	—		—	—	—
13			—	—		—	—		—	—	—

→ MW-104A went dry at approx. 6.5 gallons during purge

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Air-assist used for purge. Hexavalent Chromium 1 x 250 Poly (unpreserved)	
1	8:30	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW104A-080410-01 8:30	
		ice	8015M - TPH-g	VOAs	3	HCL		
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved		
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved		
		ice	RSK 175M Methane	VOAs	2	Unpreserved		
		ice	300 IC - Sulfate	250 Poly	1	Unpreserved		
		ice	300 IC - Nitrate					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-105 Site
 SAMPLED BY: Frane Sosic / RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	Hexavalent Chromium 1 x 250 Poly (unpreserved)
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8260B - VOCs & Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Duplicate
Duplicate
Duplicate

DRY

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-5-2010 / 8-6-2010

WELL NO. MW-106A Bloomfield
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	110.00 (ft.)
DEPTH TO WATER	105.68 (ft.)
HEIGHT OF WATER COLUMN	4.32 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.8512 (gal)
PURGE VOLUME	x 3 = 8.5536 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: Went dry after 8-gal purge in previous quarter
 WELL CONDITION:

OK

WEATHER CONDITIONS:
 Clear/sunny (~80°F)/wind (10-20 mph)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp. Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
15:52	3 *		8.05	2.498	/	4.52	22.84	/	210	Clear	HC odor
	6										
	8										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	8:30	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Hardly any water coming up from this well. Appears to have dried out at around ~3 gallons.
1	1	ice	8015M - TPH-g	VOAs	3	HCL	Purged dry; will allow well to recharge over night and then sample it tomorrow (8-6-2010).
1	1	ice	Hexavalent Chromium	Poly	1	None	Took us approx. 54 mins to purge ~3 gallons.
							LL-MW106A-080610-01 8:30

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h/\text{ft} \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-6-2010

WELL NO. MW-107A Bloomfield
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 4,3362 (gal)
PURGE VOLUME	x 3 = 13.0086 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: _____
 WELL CONDITION: OK
 WEATHER CONDITIONS: Cloudy/overcast / ~68°F
~75°F by 9:30 AM
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
9:29	5		8.22	1.901	/	3.02	23.52	/	-267	Cloudy	HC odor
9:33	10		8.11	1.890	/	3.63	23.33	/	-275	-/-	-/-
9:35	13		8.10	1.872	/	3.25	23.59	/	-280	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Air-assist line connected/used for purge
1	9:45	ice	8260B - VOCs + Oxys	VOAs	3	HCL	① Hexavalent Chromium 1 x 250 Poly (unpreserved)
1	1	ice	8015M - TPH-g	VOAs	3	HCL	LL-MW107A-080610-01 9:45
2	10:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Duplicate
2	1	ice	8015M - TPH-g	VOAs	3	HCL	Duplicate } LL-MW107A-080610-02
2	1	ice	Hexavalent Chromium	Poly	1	None	Duplicate 10:00

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

2640 Walnut Ave, Unit F, Tustin, CA 92780 | 714.508.0800 ph | 714.508.0880 fx | www.murexenv.com

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-2010

WELL NO. MW-201 Site 2
 SAMPLED BY: Frane Sosic / RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
 WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-202 Site
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-203 Bloomfield
 SAMPLED BY: Frane Sosic /RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
 WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-204 Site
 SAMPLED BY: Frane Sosic /RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-205 Site
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry
 WELL CONDITION:

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
	Time		8260B - VOCs + Oxys	VOAs	3	HCL	Hexavalent Chromium 1 x 250 Poly (unpreserved)
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved	
		ice	RSK 175M Methane	VOAs	2	Unpreserved	
		ice	300 IC - Sulfate	250 Poly	1	Unpreserved	
		ice	300 IC - Nitrate				

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.20.10

WELL NO. MW-501A Lakeland
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May be Dry
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
	ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY	
	ice	8015M - TPH-g	VOAs	3	HCL		
	ice	Hexavalent Chromium	Poly	1	None		

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-502 Lakeland
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May have sheen/product
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
	ice		8260B - VOCs + Oxys	VOAs	3	HCL	DRY
	ice		8015M - TPH-g	VOAs	3	HCL	
	ice		Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.9.2010

WELL NO. MW-503B Lakeland
 SAMPLED BY: Frane Sosic

WELL NOTES: Missing bolts to well cap!
 WELL CONDITION:

OK

WEATHER CONDITIONS:

Partly cloudy/party sun (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	4" (inches)
DEPTH OF WELL	108.67 (ft.)
DEPTH TO WATER	106.22 (ft.)
HEIGHT OF WATER COLUMN	2.45 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1617 (gal)
PURGE VOLUME	x 3 = 4.851 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
9:26	1		7.78	1.761	/	2.24	25.10	/	205	Grey	H2S odor
9:30	3		7.74	1.741	/	2.51	24.88	/	192	-/-	-/-
9:34	5		7.60	1.736	/	2.72	24.24	/	147	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES: Air-assist used for purge Hexavalent Chromium 1 x 250 Poly (unpreserved)
1	10:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved	
		ice	RSK 175M Methane	VOAs	2	Unpreserved	
		ice	300 IC - Sulfate	250 Poly	1	Unpreserved	LL-MW503B-080910_01 10:00
		ice	300 IC - Nitrate				

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-504 Site 2
 SAMPLED BY: Frane Sosic /RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: May be dry/may have product
 WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-600A Hospital
 SAMPLED BY: Frane Sosic /RH

Well Notes: May be dry, may have product
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-601A Hospital
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER	DRY	(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-603 Hospital
 SAMPLED BY: Frane Sosic /RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-604 Hospital
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. MW-605 Hospital
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:	
		ice	8260B - VOCs & Oxys	VOAs	3	HCL	Hexavalent Chromium 1 x 250 Poly (unpreserved) DRY	
		ice	8015M - TPH-g	VOAs	3	HCL		
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved		
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved		
		ice	RSK 175M Methane	VOAs	2	Unpreserved		
		ice	300 IC - Sulfate	250 Poly	1	Unpreserved		
		ice	300 IC - Nitrate					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-606 Hospital
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	DRY (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:	
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY	
		ice	8015M - TPH-g	VOAs	3	HCL		
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved		
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved		
		ice	RSK 175M Methane	VOAs	2	Unpreserved		
		ice	300 IC - Sulfate	250 Poly	1	Unpreserved		
		ice	300 IC - Nitrate					
		ice	RSK 175M Methane	VOAs	2	Unpreserved		

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7-30-10

WELL NO. MW-607 Hospital
 SAMPLED BY: Frane Sosic /RH

WELL NOTES: May Be Dry

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-6-2010

WELL NO. W-1 Walker
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	129.61 (ft.)
DEPTH TO WATER	110.79 (ft.)
HEIGHT OF WATER COLUMN	18.82 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 12.4212 (gal)
PURGE VOLUME	x 3 = 37.2636 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: _____
 WELL CONDITION: _____
 OK
 WEATHER CONDITIONS:
 Clear/sunny/breezy (~80°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
13:54	5		7.48	2.558		3.22	25.50		-28	Clear	HC odor
14:00	10		7.49	2.588		2.96	25.45		-22	-/-	-/-
14:12	15		7.63	2.576		3.24	24.47		-31	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	14:56	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist line connected for purging. LL-W1-080610-01 14:56
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

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PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-6-2010

WELL NO.

W-1

SAMPLED BY: Frane Sosic

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. W-3A Walker
 SAMPLED BY: Frane Sosic /RH

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: May have product
 WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-6-2010

WELL NO. W-4 Walker
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	129.71 (ft.)
DEPTH TO WATER	112.65 (ft.)
HEIGHT OF WATER COLUMN	17.06 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 11,259.6 (gal)
PURGE VOLUME	x 3 = 33,778.8 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: _____
 WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/breezy (~80°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
10:38	5		7.88	2,352		3.24	22.95		-55	Clear	HC Odor
10:42	10		7.87	2,313		3.54	23.03		-68	-/-	-/-
10:55	15		7.89	2,217		3.37	22.77		-56	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	Notes
1	13:10	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Purge slowed significantly at ~13 gallons LL-W4-080610-01 13:10
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

$$\text{4"} \text{ well} = 0.66 \text{ Gal./Foot}$$

$$2" \text{ well} = 0.163 \text{ Gal./Foot}$$

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-6-2010

WELL NO. W-4

SAMPLED BY: Frane Sosic

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.4.2010

WELL NO. W-7 Site
 SAMPLED BY: Frane Sosic

WELL NOTES: Deep production well-no purge (sample in any order)

WELL CONDITION: OK

WEATHER CONDITIONS:

Clear/Sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	101.06 (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	10:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W7-080410-01 @ 10:00
1		ice	8015M - TPH-g	VOAs	3	HCL	
1		ice	Hexavalent Chromium	Poly	1	None	
2	10:25	ice	8260/8015/Cr ⁺⁶	6VOAs/1Poly	7 total	HCl/None	LL-W7-080410-02 @ 10:25

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-4-2010

WELL NO. W-8 Site
 SAMPLED BY: Frane Sosic

WELL NOTES: Deep production well-no purge (sample in any order)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	83.00 (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUS	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	16:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W8-080410-01 16:00
1	↓	ice	8015M - TPH-g	VOAs	3	HCL	
1	↓	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-4-2010

WELL NO. W-9 Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	110.37 (ft.)
DEPTH TO WATER	93.01 (ft.)
HEIGHT OF WATER COLUMN	17.36 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.82968 (gal)
PURGE VOLUME	x 3 = 8.48904 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny (~80°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA												
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor	
9:49	3		7.34	2.729		2.62	22.73		-6	Clear	None	
10:27	6		7.36	2.724		3.01	23.40		-54	-11-	-11-	
10:50	9*		7.36	2.715		3.36	22.74		-60	-11	-11-	

→ W-9 went dry at the end of 9-gallon purge; will allow recharge prior to sampling

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Very little water coming up; W-9 is drying up...
1	15:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W9-080410-01 @ 15:00
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-9-2010

WELL NO. W-10 Site 2
 SAMPLED BY: Frane Sosic
 Parged dry at c. 1 gallon in 2Q 2010
 Slow recharge: purge 1 day prior to event
 WELL NOTES: conclusion
 WELL CONDITION: OK
 OK
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	2"
DEPTH OF WELL	110.21 (ft.)
DEPTH TO WATER	103.17 (ft.)
HEIGHT OF WATER COLUMN	7.04 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1.14752 (gal)
PURGE VOLUME	x 3 = 3.44256 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
8:21	Day 1 *										Strong
	Day 2										Sharp odor
	Day 3										

Well went dry after approx. 0.5-gallon purge.

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	Notes: Hardly any water coming up. Hexavalent Chromium 1 x 250 Poly (unpreserved)
1	16:20	ice	8260B - VOCs + Oxys	VOAs	3	HCL	W-10 purged dry @ approx. 0.5 gallons will return later to sample if there is ample water. LL-W10-080910_01 @ 16:20
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
2		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
2		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	Duplicate Duplicate Duplicate

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 7.30.10

WELL NO. W-11 Site 2
 SAMPLED BY: Frane Sosic

WELL NOTES: May have product ✓ Yes it does
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER 107.51		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS * 0.60 (107.51 - 106.91)		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	* FREE PRODUCT - NOT SAMPLED
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-5-2010

WELL NO. W-12 Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	116.10 (ft.)
DEPTH TO WATER	108.22 (ft.)
HEIGHT OF WATER COLUMN	7.88 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1.28444 (gal)
PURGE VOLUME	x 3 = 3.85332 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: May Be Dry
 WELL CONDITION:
 WEATHER CONDITIONS:
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA												
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor	
13:46	1		7.52	1.980	/	1.49	25.08	/	-89	Dk. Grey	HC' odbr	Very strong
13:50	2		7.60	1.984	/	2.03	23.68	/	-106	Lt. Grey	-/-	
14:00	3		7.61	1.990	/	2.65	23.66	/	-100	Clear	-/-	

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	14:15	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W12-080510-01 14:15
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-2-2010

WELL NO. MW-14A Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	111.85 (ft.)
DEPTH TO WATER	99.12 (ft.)
HEIGHT OF WATER COLUMN	12.73 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 207499 (gal)
PURGE VOLUME	x 3 = 6 gallons (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm (Overcast AM)
 PURGING AND SAMPLING EQUIPMENT: YSI 556 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
8:43	2		8.19	1.884	/	4.84	20.88	/	169	Clear	None
9:02	4		8.05	1.800	/	3.94	20.88	/	159	-/-	-/-
9:10	6		8.02	1.793	/	3.12	20.50	/	145	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9:20	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W14A-080210-01 9:20
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-2-2010

WELL NO. MW-14B Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	2.282 (gal)
PURGE VOLUME	x 3 =	6.846 (gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature C	TDS	ORP mV	Color	Odor
9:51	2		7.95	1.580		3.09	19.88		70.9	Clear	None
9:59	4		7.83	1.649		4.64	19.44		56	-11-	-11-
10:10	6		7.80	1.658		4.60	19.15		33	-11-	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10:30	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W14B-080210-01 10:30
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-2-2010

WELL NO. MW-14C Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	166.57 (ft.)
DEPTH TO WATER	98.28 (ft.)
HEIGHT OF WATER COLUMN	68.29 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 11.13127 (gal)
PURGE VOLUME	x 3 ≈ 33 gallons (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm (85°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
11:07	5		7.73	1.559	/	3.83	20.63	/	58	Clear	None
11:30	10		7.50	1.558	/	3.60	22.60	/	128	-/-	-/-
12:01	15		7.59	1.560	/	3.62	23.05	/	117	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	14:20	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W14C_080210-01 14:20
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-2-2010

WELL NO. W-14C

SAMPLED BY: Frane Sosic

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-2-2010

WELL NO. MW-15A Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL	125.70	(ft.)
DEPTH TO WATER	115.86	(ft.)
HEIGHT OF WATER COLUMN	9.84	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1,603.7	(gal)
PURGE VOLUME	x 3 = 4,811.16	(gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm (85°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
15:18	1		7.46	2.230	/	1.43	27.90	/	-100	Silky Grey	None
15:33	3		7.38	2.180	/	2.12	25.57	/	-135	-11-	-11-
15:43	5		7.39	2.184	/	1.96	25.46	/	-145	-11-	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	16:00	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W15A-080210-01 16:00
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal}/\text{ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-3-2010

WELL NO. MW-15B Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	155.60 (ft.)
DEPTH TO WATER	115.83 (ft.)
HEIGHT OF WATER COLUMN	39.77 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 6.48251 (gal)
PURGE VOLUME	x 3 = 19.44753 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm (~70°F in the A.M.) 80°F+ in the P.M.
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
8:57	5		8.00	2.020	/	2.70	19.99	/	232	Cloudy	None
9:16	10		7.94	2.006	/	2.82	20.08	/	149	Clear	None
9:39	15		7.75	1.989	/	3.31	20.13	/	123	-11-	-11-
10:00	19		7.74	1.979	/	3.42	19.95	/	107	-11-	-11-
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:				
1	10:10	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W15B-080310_01				
1	1	ice	8015M - TPH-g	VOAs	3	HCL	10:10				
1	1	ice	Hexavalent Chromium	Poly	1	None					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.3.2010

WELL NO. HW-15C Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	197.34 (ft.)
DEPTH TO WATER	116.03 (ft.)
HEIGHT OF WATER COLUMN	81.31 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 13.25353 (gal)
PURGE VOLUME	x 3 = 39.76091 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny/warm (80°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
11:10	5		8.01	1.719	/	2.52	21.87	/	189	Cloudy/grey	None
11:40	10		7.98	1.690	/	2.84	22.07	/	93	-11-	-11-
12:17	15		7.66	1.785	/	2.73	22.36	/	136	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: No water coming up; stinger lifted ~4ft. above casing.
1	15:36	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W15C_080310_01
1	1	ice	8015M - TPH-g	VOAs	3	HCL	15:36
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-3-2010

WELL NO. W-15C

SAMPLED BY: Frane Sosic

20-gel drained from transfer tank on vacuum truck.

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.6.2010 / 8.9.2010

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	123.12 (ft.)
DEPTH TO WATER	112.92 (ft.)
HEIGHT OF WATER COLUMN	10.20 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1,662.6 (gal)
PURGE VOLUME	x 3 = 4,987.8 (gal)
PRODUCT THICKNESS	(ft.)

WELL NO. MW-16A Walker
 SAMPLED BY: Frane Sosic

WELL NOTES: Very slow purge (3Q2010)
 WELL CONDITION:

OK

WEATHER CONDITIONS:
Clear/sunny (~80°F) / breezy

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
10:54	1		8.10	2.105		2.55	20.48	/	122	Dk. Gray	HCl br
12:03	3*		7.98	2.266		2.65	20.00	/	106	-11-	-11-
	5							/			

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Water not coming up first 20 mins of purge. Stinger raised approx. 5' from bottom; again 20 mins. We will dry agreed on Monday. Very slow purge. W-16A is drying upon 3-gallons have been purged. Went dry 03:59 gallons.
1	13:22	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Noticed coming up after approx. 46 mins of purging. We will dry agreed on Monday. Very slow purge. W-16A is drying upon 3-gallons have been purged. Went dry 03:59 gallons.
1	13:22	ice	8015M - TPH-g	VOAs	3	HCL *	
1	13:22	ice	Hexavalent Chromium	Poly	1	None	
							LL-W16A_080910_01 13:22

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-9-2010

WELL NO. MW-16B Walker
 SAMPLED BY: Frane Sosic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	160.25	(ft.)
DEPTH TO WATER	124.69	(ft.)
HEIGHT OF WATER COLUMN	35.56	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 5.79628	(gal)
PURGE VOLUME	x 3 = 17.38884	(gal)
PRODUCT THICKNESS		(ft.)

WELL NOTES: Purged well/good amt. of water
 WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny/breezy (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp. Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
12:22	5		7.77	2.485		1.22	25.37		-160	Cloudy	Odry
12:37	10		7.93	2.411		2.93	24.63		-176	Cloudy	-11-
12:56	15		8.04	2.406		2.80	24.20		-216	Clear	-11-
13:05	17		8.01	2.236		2.88	24.14		-217	Clear	-11-
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:				
1	14:55	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W16B-080910-01				
1	1	ice	8015M - TPH-g	VOAs	3	HCL	14:55				
1	1	ice	Hexavalent Chromium	Poly	1	None					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.9.2010

WELL NO. MW-16C Walker
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 196.30	(ft.)
DEPTH TO WATER 124.02	(ft.)
HEIGHT OF WATER COLUMN 72.28	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 11,781.64	(gal)
PURGE VOLUME x 3 = 35,344.92	(gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES: Purging much slower than in previous quarter.
 WELL CONDITION: OK

WEATHER CONDITIONS: Clear/sunny (~80°F)/light breeze

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TOS	ORP mV	Color	Odor
15:28	5		7.81	1,360		2.38	22.38		-158	Clear	HC odor
15:51	10		8.05	1,569		2.37	22.07		-171	-11-	-11-
16:25	15		8.10	1,668		2.65	22.23		-148	-11-	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	17:30	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W16C-080910-01 @ 17:30
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	LL-W16C-080910-02 @ 17:40
2	17:40						
2	17:40						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-9-2010

WELL NO. N-16C

SAMPLED BY: Frane Sosic

→ Purge ended early due to time constraints

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-4-2010

WELL NO. W-17A Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	108.30 (ft.)
DEPTH TO WATER	101.90 (ft.)
HEIGHT OF WATER COLUMN	6.4 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1.0432 (gal)
PURGE VOLUME	x 3 = 3.1296 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny (~80°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUS	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
11:59	1		7.80	1.925	/	2.07	21.83	/	365	Dk. Gray	None
12:06	2		7.79	1.931	/	2.18	21.88	/	108	-11-	-11-
12:17	3		7.78	1.950	/	2.35	22.26	/	62	Cloudy/clear	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	12:34	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W17A-080410-01 12:34
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-4-2010 / 8-5-2010

WELL NO. W-17B Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	169.60 (ft.)
DEPTH TO WATER	113.49 (ft.)
HEIGHT OF WATER COLUMN	56.11 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 9.14573 (gal)
PURGE VOLUME	x 3 = 27.43779 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Clear/sunny (~80°F)
 Afternoon Wind (10-25 mph)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
14:35	5		8.40	1.584	/	2.28	26.59	/	-154	Clear	None
15:00	10		8.08	1.568	/	2.20	26.49	/	-162	-/-	-/-
15:21	15		7.99	1.565	/	2.07	26.70	/	-168	-/-	-/-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Water did not come up initially. Stinger raised ~4.5ft above casing to get water purging. Purgung much slower than in previous quarter.
1	8:20	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1	ice	8015M - TPH-g	VOAs	3	HCL	
1	1	ice	Hexavalent Chromium	Poly	1	None	
							LL-W17B-080510-01 8:20

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-4-2010

WELL NO. W-17B

SAMPLED BY: Frane Sosic

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-5-2010

WELL NO. W-17C Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	200.00 (ft.)
DEPTH TO WATER	113.60 (ft.)
HEIGHT OF WATER COLUMN	86.40 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 14.0832 (gal)
PURGE VOLUME	x 3 = 42.2496 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK
 WEATHER CONDITIONS: Cloudy/overcast/cool (~65°F)
 PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
9:14	5		8.21	1.449	/	2.16	21.78	/	-128	Clear	HC odor
9:34	10		8.17	1.456	/	2.03	21.81	/	-161	-11-	-11-
9:57	15		8.10	1.460	/	2.34	22.17	/	-164	-11-	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: W-17C purging much slower than in previous quarter
1	13:13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W17C-080510-01
1		ice	8015M - TPH-g	VOAs	3	HCL	
1		ice	Hexavalent Chromium	Poly	1	None	13:13

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8-5-2010

WELL NO. W-17C

SAMPLED BY: Frane Sosic

Appendix B



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

06 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W14A_080210-01	T000774-01	Water	08/02/10 09:20	08/02/10 16:20
LL_W14B_080210-01	T000774-02	Water	08/02/10 10:30	08/02/10 16:20
LL_W14C_080210-01	T000774-03	Water	08/02/10 14:20	08/02/10 16:20
LL_W15A_080210-01	T000774-04	Water	08/02/10 16:00	08/02/10 16:20

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14A_080210-01
T000774-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080306	08/03/10	08/03/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		87.6 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.4	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14A_080210-01
T000774-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14A_080210-01
T000774-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		92.2 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		112 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		101 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080302	08/03/10	08/03/10	EPA 7199	I-02
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14B_080210-01
T000774-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	55	50	ug/l	1	0080306	08/03/10	08/03/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		90.8 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	3.4	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.1	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14B_080210-01
T000774-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	17	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14B_080210-01
T000774-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		88.9 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		130 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		97.2 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080302	08/03/10	08/03/10	EPA 7199	I-02
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14C_080210-01
T000774-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	77	50	ug/l	1	0080306	08/03/10	08/03/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		87.7 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	2.4	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	4.2	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	35	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	4.6	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14C_080210-01
T000774-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	7.8	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1.1	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W14C_080210-01
T000774-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		94.1 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		129 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		94.2 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080302	08/03/10	08/03/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W15A_080210-01
T000774-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	310	50	ug/l	1	0080306	08/03/10	08/03/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		90.5 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W15A_080210-01
T000774-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	2.1	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	2.9	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	0.54	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

LL_W15A_080210-01
T000774-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	180	10	ug/l	1	0080307	08/03/10	08/04/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	71	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		97.9 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		123 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		98.9 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080302	08/03/10	08/03/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080306 - EPA 5030 GC

Blank (0080306-BLK1)							Prepared & Analyzed: 08/03/10			
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	179	"		200		89.4	72.6-146			
LCS (0080306-BS1)							Prepared & Analyzed: 08/03/10			
C6-C12 (GRO)	4690	50	ug/l	5500		85.3	75-125			
Surrogate 4-Bromofluorobenzene	173	"		200		86.7	72.6-146			
Matrix Spike (0080306-MS1)							Source: T000774-01	Prepared: 08/03/10	Analyzed: 08/04/10	
C6-C12 (GRO)	4730	50	ug/l	5500	43.3	85.2	65-135			
Surrogate 4-Bromofluorobenzene	165	"		200		82.7	72.6-146			
Matrix Spike Dup (0080306-MSD1)							Source: T000774-01	Prepared: 08/03/10	Analyzed: 08/04/10	
C6-C12 (GRO)	4560	50	ug/l	5500	43.3	82.1	65-135	3.60	20	
Surrogate 4-Bromofluorobenzene	167	"		200		83.7	72.6-146			



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080307 - EPA 5030 GCMS

Blank (0080307-BLK1)

Prepared: 08/03/10 Analyzed: 08/04/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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Batch 0080307 - EPA 5030 GCMS

Blank (0080307-BLK1)

Prepared: 08/03/10 Analyzed: 08/04/10

p-Isopropyltoluene	ND	1.0	ug/l						
Methylene chloride	ND	1.0	"						
Naphthalene	ND	1.0	"						
n-Propylbenzene	ND	1.0	"						
Styrene	ND	1.0	"						
1,1,2,2-Tetrachloroethane	ND	1.0	"						
1,1,1,2-Tetrachloroethane	ND	1.0	"						
Tetrachloroethene	ND	1.0	"						
1,2,3-Trichlorobenzene	ND	1.0	"						
1,2,4-Trichlorobenzene	ND	1.0	"						
1,1,2-Trichloroethane	ND	1.0	"						
1,1,1-Trichloroethane	ND	1.0	"						
Trichloroethene	ND	1.0	"						
Trichlorofluoromethane	ND	1.0	"						
1,2,3-Trichloropropane	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
Vinyl chloride	ND	1.0	"						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
Ethanol	ND	500	"						
<i>Surrogate 4-Bromofluorobenzene</i>	7.40		"	8.00		92.5	77.1-110		
<i>Surrogate Dibromofluoromethane</i>	8.88		"	8.00		111	66.3-111		
<i>Surrogate Toluene-d8</i>	7.98		"	8.00		99.8	84.7-109		

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080307 - EPA 5030 GCMS

LCS (0080307-BS1)		Prepared: 08/03/10 Analyzed: 08/04/10					
Chlorobenzene	22.0	1.0	ug/l	20.0	110	75-125	
1,1-Dichloroethene	22.7	1.0	"	20.0	114	75-125	
Trichloroethene	20.1	1.0	"	20.0	101	75-125	
Benzene	22.0	0.50	"	20.0	110	75-125	
Toluene	19.6	0.50	"	20.0	97.8	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	8.17		"	8.00	102	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.10		"	8.00	114	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.43		"	8.00	92.9	84.7-109	

Matrix Spike (0080307-MS1)		Source: T000774-01 Prepared: 08/03/10 Analyzed: 08/04/10					
Chlorobenzene	22.0	1.0	ug/l	20.0	ND	110	75-125
1,1-Dichloroethene	21.6	1.0	"	20.0	ND	108	75-125
Trichloroethene	20.3	1.0	"	20.0	0.500	99.0	75-125
Benzene	21.3	0.50	"	20.0	ND	106	75-125
Toluene	20.0	0.50	"	20.0	ND	100	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.16		"	8.00	102	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	8.19		"	8.00	102	66.3-111	
<i>Surrogate</i> Toluene-d8	7.55		"	8.00	94.4	84.7-109	

Matrix Spike Dup (0080307-MSD1)		Source: T000774-01 Prepared: 08/03/10 Analyzed: 08/04/10					
Chlorobenzene	21.6	1.0	ug/l	20.0	ND	108	75-125 1.97 20
1,1-Dichloroethene	21.6	1.0	"	20.0	ND	108	75-125 0.0463 20
Trichloroethene	19.3	1.0	"	20.0	0.500	94.2	75-125 4.90 20
Benzene	21.0	0.50	"	20.0	ND	105	75-125 1.14 20
Toluene	18.9	0.50	"	20.0	ND	94.4	75-125 5.71 20
<i>Surrogate</i> 4-Bromofluorobenzene	8.19		"	8.00	102	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	8.66		"	8.00	108	66.3-111	
<i>Surrogate</i> Toluene-d8	7.40		"	8.00	92.5	84.7-109	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/06/10 15:50

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080302 - General Preparation

Blank (0080302-BLK1)	Prepared & Analyzed: 08/03/10								
Hexavalent Chromium	ND	1.00	ug/l						
LCS (0080302-BS1)	Prepared & Analyzed: 08/03/10								
Hexavalent Chromium	24.5	1.00	ug/l	25.0	98.1	85-115			
Matrix Spike (0080302-MS1)	Source: T000774-03 Prepared & Analyzed: 08/03/10								
Hexavalent Chromium	22.1	1.00	ug/l	25.0	0.219	87.4	85-115		
Matrix Spike Dup (0080302-MSD1)	Source: T000774-03 Prepared & Analyzed: 08/03/10								
Hexavalent Chromium	22.2	1.00	ug/l	25.0	0.219	87.7	85-115	0.389	20



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/06/10 15:50
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Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX
 Address: 2640 Walnut Ave., Unit F
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire

Date: 8-2-2010 Page: 1 Of 1
 Project Name: CENCO
 Collector: FS Client Project #: 1003-001-300
 Batch #: T000774 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	60107000 Title 22 Metals	Cr+6 (7/99)	Laboratory ID #	Comments/Preservative	Total # of containers		
<u>LL-W14A_080210_01</u>	<u>8-2-2010</u>	<u>9:20</u>	<u>Water</u>	<u>310A/1 Poly</u>	X											01	<u>7</u>		
<u>LL-W14B_080210_01</u>		<u>10:30</u>			X		X		X							02	<u>7</u>		
<u>LL-W14C_080210_01</u>		<u>14:20</u>			X		X		X							03	<u>7</u>		
<u>LL-W15A_080210_01</u>		<u>16:00</u>			X		X		X		X		X			04	<u>7</u>		
																05			
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Total # of containers				Notes			
				<u>8-2-2010 16:20</u>						<u>8/2/10 1620</u>		<u>28</u>							
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Chain of Custody seals Y/N/NA							
												<u>/</u>							
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Seals intact? Y/N/NA							
												<u>/</u>							
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Received good condition/cold							
												<u>/</u>				<u>7.6°</u>			
Turn around time: _____																			

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 92866

SAMPLE RECEIVING REVIEW SHEET

BATCH # T000774

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 8/2/10 1620

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 7.8 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 7.6 $^{\circ}\text{C}$ corrected temperature

cooler #2 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = $^{\circ}\text{C}$ corrected temperature

cooler #3 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 8/2/10

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/04/10 09:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W15B_080310_01	T000781-01	Water	08/03/10 10:10	08/04/10 09:59
LL_W15C_080310_01	T000781-02	Water	08/03/10 15:36	08/04/10 09:59
TB_080310	T000781-03	Water	08/03/10 00:00	08/04/10 09:59

SunStar Laboratories, Inc.

John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

LL_W15B_080310_01
T000781-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	250	50	ug/l	1	0080505	08/05/10	08/06/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		98.7 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	1.1	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

LL_W15B_080310_01
T000781-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	8.8	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	10	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	14	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Page 3 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

LL_W15B_080310_01
T000781-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	67	10	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	19	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		104 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		107 %	66.3-111		"	"	"	"	"
Surrogate Toluene-d8		101 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080403	08/04/10	08/04/10	EPA 7199	I-02
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SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Page 4 of 16

Murex	Project: Cenco	
2640 Walnut Ave. Unit F	Project Number: 1003.001	Reported:
Tustin CA, 92780	Project Manager: Jeremy Squire	08/11/10 17:11

LL_W15C_080310_01
T000781-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080505	08/05/10	08/06/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		87.2 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	1.0	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	0.54	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	4.7	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Page 5 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

LL_W15C_080310_01
T000781-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	3.5	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	1.5	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	20	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Page 6 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

LL_W15C_080310_01
T000781-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		97.8 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		97.5 %	66.3-111		"	"	"	"	"
Surrogate Toluene-d8		100 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080403	08/04/10	08/04/10	EPA 7199	
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SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

TB_080310
T000781-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



John Shepler, Laboratory Director

Page 8 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

TB_080310
T000781-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	0080404	08/04/10	08/06/10	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Page 9 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

TB_080310

T000781-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate 4-Bromofluorobenzene	92.4 %	77.1-110	0080404	08/04/10	08/06/10	EPA 8260B
Surrogate Dibromofluoromethane	106 %	66.3-111	"	"	"	"
Surrogate Toluene-d8	103 %	84.7-109	"	"	"	"

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John Shepler, Laboratory Director

Page 10 of 16

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080505 - EPA 5030 GC

Blank (0080505-BLK1)					Prepared: 08/05/10	Analyzed: 08/06/10
C6-C12 (GRO)	ND	50	ug/l			
Surrogate 4-Bromofluorobenzene	209	"		200	105	72.6-146
LCS (0080505-BS1)					Prepared: 08/05/10	Analyzed: 08/06/10
C6-C12 (GRO)	5910	50	ug/l	5500	107	75-125
Surrogate 4-Bromofluorobenzene	184	"		200	92.0	72.6-146
Matrix Spike (0080505-MS1)		Source: T000790-01			Prepared: 08/05/10	Analyzed: 08/06/10
C6-C12 (GRO)	5040	50	ug/l	5500	39.0	90.9
Surrogate 4-Bromofluorobenzene	162	"		200	81.2	72.6-146
Matrix Spike Dup (0080505-MSD1)		Source: T000790-01			Prepared: 08/05/10	Analyzed: 08/06/10
C6-C12 (GRO)	5160	50	ug/l	5500	39.0	93.1
Surrogate 4-Bromofluorobenzene	156	"		200	77.8	72.6-146

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Notes
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Batch 0080404 - EPA 5030 GCMS

Blank (0080404-BLK1)

Prepared: 08/04/10 Analyzed: 08/05/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080404 - EPA 5030 GCMS

Blank (0080404-BLK1)

Prepared: 08/04/10 Analyzed: 08/05/10

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
<i>Surrogate</i> 4-Bromofluorobenzene	7.71	"	8.00		96.4	77.1-110				
<i>Surrogate</i> Dibromofluoromethane	7.72	"	8.00		96.5	66.3-111				
<i>Surrogate</i> Toluene-d8	8.07	"	8.00		101	84.7-109				

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080404 - EPA 5030 GCMS

LCS (0080404-BS1)							Prepared: 08/04/10	Analyzed: 08/05/10
Chlorobenzene	20.0	1.0	ug/l	20.0		100	75-125	
1,1-Dichloroethene	19.4	1.0	"	20.0		97.2	75-125	
Trichloroethene	19.8	1.0	"	20.0		98.8	75-125	
Benzene	20.0	0.50	"	20.0		100	75-125	
Toluene	20.4	0.50	"	20.0		102	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	7.73		"	8.00		96.6	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	7.60		"	8.00		95.0	66.3-111	
<i>Surrogate</i> Toluene-d8	7.99		"	8.00		99.9	84.7-109	
LCS Dup (0080404-BSD1)							Prepared: 08/04/10	Analyzed: 08/05/10
Chlorobenzene	20.1	1.0	ug/l	20.0		100	75-125	0.449
1,1-Dichloroethene	19.6	1.0	"	20.0		97.9	75-125	0.666
Trichloroethene	19.6	1.0	"	20.0		97.9	75-125	0.966
Benzene	20.0	0.50	"	20.0		99.8	75-125	0.150
Toluene	20.2	0.50	"	20.0		101	75-125	1.33
<i>Surrogate</i> 4-Bromofluorobenzene	7.70		"	8.00		96.2	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	7.78		"	8.00		97.2	66.3-111	
<i>Surrogate</i> Toluene-d8	7.88		"	8.00		98.5	84.7-109	

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John Shepler, Laboratory Director

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080403 - General Preparation

Blank (0080403-BLK1)	Prepared & Analyzed: 08/04/10								
Hexavalent Chromium	ND	1.00	ug/l						
LCS (0080403-BS1)	Prepared & Analyzed: 08/04/10								
Hexavalent Chromium	23.7	1.00	ug/l	25.0	94.9	85-115			
Matrix Spike (0080403-MS1)	Source: T000781-02 Prepared & Analyzed: 08/04/10								
Hexavalent Chromium	22.4	1.00	ug/l	25.0	ND	89.5	85-115		
Matrix Spike Dup (0080403-MSD1)	Source: T000781-02 Prepared & Analyzed: 08/04/10								
Hexavalent Chromium	23.3	1.00	ug/l	25.0	ND	93.2	85-115	4.05	20

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001
Project Manager: Jeremy Squire

Reported:
08/11/10 17:11

Notes and Definitions

- I-02 This result was analyzed outside of the EPA recommended holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/04/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_MW104A_080410_01	T000794-01	Water	08/04/10 08:30	08/04/10 17:00
LL_W7_080410_01	T000794-02	Water	08/04/10 10:00	08/04/10 17:00
LL_W7_080410_02	T000794-03	Water	08/04/10 10:25	08/04/10 17:00
LL_W17A_080410_01	T000794-04	Water	08/04/10 12:34	08/04/10 17:00
LL_W9_080410_01	T000794-05	Water	08/04/10 15:00	08/04/10 17:00
LL_W8_080410_01	T000794-06	Water	08/04/10 16:00	08/04/10 17:00
TB_080410	T000794-07	Water	08/04/10 00:00	08/04/10 17:00

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_MW104A_080410_01
T000794-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		106 %		72.6-146	"	"	"	"	"

Metals by SM 3500 Series Methods

Ferrous Iron	ND	0.100	mg/l	1	0080906	08/09/10	08/11/10	EPA6010/SM 3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_MW104A_080410_01
T000794-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
cis-1,2-Dichloroethene	4.5	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_MW104A_080410_01
T000794-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		92.2 %		77.1-110		"	"	"	
<i>Surrogate Dibromofluoromethane</i>		115 %		66.3-111		"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		103 %		84.7-109		"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	808	20.0	mg/l	1	0080516	08/05/10	08/05/10	EPA 310.1	
Hexavalent Chromium	ND	1.00	ug/l	"	0080513	08/05/10	08/05/10	EPA 7199	I-02

Anions by EPA Method 300.0

Sulfate as SO4	87.0	5.00	mg/l	10	0080501	08/05/10	08/05/10	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	"	"	

RSK-175

Methane	92.8	1.00	ug/l	1	0080610	08/06/10	08/11/10	RSK-175	
Ethene	ND	1.00	"	"	"	"	"	"	
Ethane	ND	1.00	"	"	"	"	"	"	



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_01
T000794-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		101 %		72.6-146	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	2.6	1.0	"	"	"	"	"	"	S-GC
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_01
T000794-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_01
T000794-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		97.1 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		131 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		99.5 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080513	08/05/10	08/05/10	EPA 7199	I-02
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_02
T000794-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		101 %		72.6-146	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	2.6	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_02
T000794-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W7_080410_02
T000794-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		95.5 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		130 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		101 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080513	08/05/10	08/05/10	EPA 7199	I-02
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W17A_080410_01
T000794-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	56	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		96.2 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	1.7	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W17A_080410_01
T000794-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W17A_080410_01
T000794-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		98.8 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		105 %	66.3-111		"	"	"	"	"
Surrogate Toluene-d8		102 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080513	08/05/10	08/05/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W9_080410_01
T000794-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	67	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		97.2 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	4.0	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W9_080410_01
T000794-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W9_080410_01
T000794-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		<i>106 %</i>	<i>77.1-110</i>		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		<i>135 %</i>	<i>66.3-111</i>		"	"	"	"	<i>S-GC</i>
<i>Surrogate Toluene-d8</i>		<i>101 %</i>	<i>84.7-109</i>		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080513	08/05/10	08/05/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W8_080410_01
T000794-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	110	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		82.3 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W8_080410_01
T000794-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.80	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

LL_W8_080410_01
T000794-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		96.0 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		130 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		98.8 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080513	08/05/10	08/05/10	EPA 7199	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex

2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco

Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

TB_080410

T000794-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

TB_080410
T000794-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

TB_080410

T000794-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate 4-Bromofluorobenzene	92.6 %	77.1-110		0080602	08/06/10	08/07/10	EPA 8260B		
Surrogate Dibromofluoromethane	134 %	66.3-111	"	"	"	"	"	"	S-GC
Surrogate Toluene-d8	101 %	84.7-109	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080603 - EPA 5030 GC

Blank (0080603-BLK1)							Prepared: 08/06/10 Analyzed: 08/10/10			
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	241	"		200		121	72.6-146			
LCS (0080603-BS1)							Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6350	50	ug/l	5500		115	75-125			
Surrogate 4-Bromofluorobenzene	223	"		200		111	72.6-146			
Matrix Spike (0080603-MS1)							Source: T000794-01 Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6430	50	ug/l	5500	46.0	116	65-135			
Surrogate 4-Bromofluorobenzene	239	"		200		120	72.6-146			
Matrix Spike Dup (0080603-MSD1)							Source: T000794-01 Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6100	50	ug/l	5500	46.0	110	65-135	5.28	20	
Surrogate 4-Bromofluorobenzene	238	"		200		119	72.6-146			





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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080906 - EPA 3010A

Blank (0080906-BLK1)				Prepared: 08/09/10 Analyzed: 08/11/10				
Ferrous Iron	ND	0.100	mg/l					
LCS (0080906-BS1)				Prepared: 08/09/10 Analyzed: 08/11/10				
Ferrous Iron	0.551	0.100	mg/l	0.526		105	80-120	
Matrix Spike (0080906-MS1)				Source: T000794-01	Prepared: 08/09/10 Analyzed: 08/11/10			
Ferrous Iron	0.547	0.100	mg/l	0.526	ND	104	75-125	
Matrix Spike Dup (0080906-MSD1)				Source: T000794-01	Prepared: 08/09/10 Analyzed: 08/11/10			
Ferrous Iron	0.530	0.100	mg/l	0.526	ND	101	75-125	3.05 20

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080602 - EPA 5030 GCMS

Blank (0080602-BLK1)

Prepared: 08/06/10 Analyzed: 08/07/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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Batch 0080602 - EPA 5030 GCMS

Blank (0080602-BLK1)

Prepared: 08/06/10 Analyzed: 08/07/10

p-Isopropyltoluene	ND	1.0	ug/l						
Methylene chloride	ND	1.0	"						
Naphthalene	ND	1.0	"						
n-Propylbenzene	ND	1.0	"						
Styrene	ND	1.0	"						
1,1,2,2-Tetrachloroethane	ND	1.0	"						
1,1,1,2-Tetrachloroethane	ND	1.0	"						
Tetrachloroethene	ND	1.0	"						
1,2,3-Trichlorobenzene	ND	1.0	"						
1,2,4-Trichlorobenzene	ND	1.0	"						
1,1,2-Trichloroethane	ND	1.0	"						
1,1,1-Trichloroethane	ND	1.0	"						
Trichloroethene	ND	1.0	"						
Trichlorofluoromethane	ND	1.0	"						
1,2,3-Trichloropropane	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
Vinyl chloride	ND	1.0	"						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
<i>Surrogate 4-Bromofluorobenzene</i>	7.28	"	8.00		91.0	77.1-110			
<i>Surrogate Dibromofluoromethane</i>	8.69	"	8.00		109	66.3-111			
<i>Surrogate Toluene-d8</i>	8.12	"	8.00		102	84.7-109			

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080602 - EPA 5030 GCMS

LCS (0080602-BS1)		Prepared: 08/06/10 Analyzed: 08/07/10					
Chlorobenzene	20.4	1.0	ug/l	20.0	102	75-125	
1,1-Dichloroethene	22.2	1.0	"	20.0	111	75-125	
Trichloroethene	21.2	1.0	"	20.0	106	75-125	
Benzene	20.0	0.50	"	20.0	100	75-125	
Toluene	22.5	0.50	"	20.0	113	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	8.42		"	8.00	105	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.15		"	8.00	114	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.94		"	8.00	99.2	84.7-109	

Matrix Spike (0080602-MS1)		Source: T000794-02 Prepared: 08/06/10 Analyzed: 08/07/10					
Chlorobenzene	18.3	1.0	ug/l	20.0	ND	91.4	75-125
1,1-Dichloroethene	22.4	1.0	"	20.0	ND	112	75-125
Trichloroethene	18.3	1.0	"	20.0	ND	91.6	75-125
Benzene	18.2	0.50	"	20.0	0.430	88.6	75-125
Toluene	19.5	0.50	"	20.0	ND	97.6	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.45		"	8.00	106	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.27		"	8.00	116	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.77		"	8.00	97.1	84.7-109	

Matrix Spike Dup (0080602-MSD1)		Source: T000794-02 Prepared: 08/06/10 Analyzed: 08/11/10					
Chlorobenzene	17.7	1.0	ug/l	20.0	ND	88.4	75-125 3.28 20
1,1-Dichloroethene	22.1	1.0	"	20.0	ND	110	75-125 1.22 20
Trichloroethene	19.5	1.0	"	20.0	ND	97.3	75-125 5.98 20
Benzene	17.5	0.50	"	20.0	0.430	85.4	75-125 3.65 20
Toluene	20.7	0.50	"	20.0	ND	104	75-125 5.97 20
<i>Surrogate</i> 4-Bromofluorobenzene	8.08		"	8.00	101	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	7.79		"	8.00	97.4	66.3-111	
<i>Surrogate</i> Toluene-d8	8.07		"	8.00	101	84.7-109	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080513 - General Preparation

Blank (0080513-BLK1)	Prepared & Analyzed: 08/05/10								
Hexavalent Chromium	ND	1.00	ug/l						
LCS (0080513-BS1)	Prepared & Analyzed: 08/05/10								
Hexavalent Chromium	23.6	1.00	ug/l	25.0	94.4	85-115			
Matrix Spike (0080513-MS1)	Source: T000794-01 Prepared & Analyzed: 08/05/10								
Hexavalent Chromium	22.7	1.00	ug/l	25.0	ND	90.6	85-115		
Matrix Spike Dup (0080513-MSD1)	Source: T000794-01 Prepared & Analyzed: 08/05/10								
Hexavalent Chromium	23.7	1.00	ug/l	25.0	ND	94.8	85-115	4.52	20

Batch 0080516 - General Preparation

Blank (0080516-BLK1)	Prepared & Analyzed: 08/05/10						
Total Alkalinity	ND	20.0	mg/l				
Duplicate (0080516-DUP1)	Source: T000794-01 Prepared & Analyzed: 08/05/10						
Total Alkalinity	810	20.0	mg/l	808		0.309	20





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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080501 - General Preparation

Blank (0080501-BLK1)				Prepared & Analyzed: 08/05/10				
Nitrite as NO2	ND	0.500	mg/l					
Sulfate as SO4	ND	0.500	"					
Nitrate as NO3	ND	0.500	"					

LCS (0080501-BS1)				Prepared & Analyzed: 08/05/10				
Sulfate as SO4	10.5	0.500	mg/l	10.0	105	80-120		
Nitrate as NO3	11.4	0.500	"	11.1	103	80-120		

Matrix Spike (0080501-MS1)				Source: T000790-01 Prepared & Analyzed: 08/05/10				
Sulfate as SO4	45.1	0.500	mg/l	10.0	34.5	107	80-120	
Nitrate as NO3	10.8	0.500	"	11.1	ND	97.3	80-120	

Matrix Spike Dup (0080501-MSD1)				Source: T000790-01 Prepared & Analyzed: 08/05/10				
Sulfate as SO4	50.4	0.500	mg/l	10.0	34.5	159	80-120	10.9
Nitrate as NO3	12.0	0.500	"	11.1	ND	108	80-120	10.6

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/11/10 17:46

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080610 - EPA 3810m Headspace

Blank (0080610-BLK1)

Prepared: 08/06/10 Analyzed: 08/11/10

Methane	ND	1.00	ug/l
Ethene	ND	1.00	"
Ethane	ND	1.00	"

Duplicate (0080610-DUP1)

Source: T000794-01

Prepared: 08/06/10 Analyzed: 08/11/10

Methane	105	1.00	ug/l	92.8	12.6	20
Ethene	ND	1.00	"	ND		20
Ethane	ND	1.00	"	ND		20

SunStar Laboratories, Inc.

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Murex	Project: Cenco	
2640 Walnut Ave. Unit F	Project Number: 1003.001-300	Reported:
Tustin CA, 92780	Project Manager: Jeremy Squire	08/11/10 17:46

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX
 Address: 2640 Walnut Ave, Unit F Tustin, CA
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire

Date: 8.4.2010 Page: 1 Of 1
 Project Name: CENCO
 Collector: FS Client Project #: 1003-001-300
 Batch #: T000794 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8260+ Ferrous Iron (SH 300)	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Cr+6 (7199)	Methane (PSK 175H)	Alkalinity	TC 300	Laboratory ID #	Comments/Preservative	Total # of containers	
LL_MW104A_080410_01	8.4.2010	8:30	Water	810A/4 Poly	X		X								X	X	X	X	C1	12	
LL_W7_080410_01		10:00		610A/1 Poly				X							X	X			02	3	
LL_W7_080410_02		10:25						X							X	X			03	2	
LL_W1A_080410_01		12:34						X							X	X			04	7	
LL_W9_080410_01		15:00						X							X	X			05	7	
LL_W8_080410_01		16:00						X							X	X			06	7	
TB_080410								2 VOAs	X											2	
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time												Total # of containers	49	Notes			
	8.4.2010 17:00			8/4/10 1700												Chain of Custody seals Y/N/NA	✓				
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time												Seals intact? Y/N/NA	✓				
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time												Received good condition/cold	Y	3.8'			
																		Turn around time:			

Sample disposal Instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

COC 92868

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7000794

Client Name: MURLEX

Project: CENCO

Received by: DAJ

Date/Time Received: 8/4/10 1700

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 4.0 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 3.8 $^{\circ}\text{C}$ corrected temperature

cooler #2 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = $^{\circ}\text{C}$ corrected temperature

cooler #3 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 8/5/10

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

12 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/05/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W17B_080510_01	T000806-01	Water	08/05/10 08:20	08/05/10 17:00
LL_W17C_080510_01	T000806-02	Water	08/05/10 13:13	08/05/10 17:00
LL_W12_080510_01	T000806-03	Water	08/05/10 14:15	08/05/10 17:00
TB_080510	T000806-04	Water	08/05/10 00:00	08/05/10 17:00

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W17B_080510_01
T000806-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		94.6 %		72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromobenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W17B_080510_01
T000806-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W17B_080510_01
T000806-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		87.8 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		135 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		101 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080601	08/06/10	08/06/10	EPA 7199	I-02
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W17C_080510_01
T000806-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		82.4 %		72.6-146	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W17C_080510_01
T000806-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex	Project: Cenco	
2640 Walnut Ave. Unit F	Project Number: 1003.001-300	Reported:
Tustin CA, 92780	Project Manager: Jeremy Squire	08/12/10 16:26

LL_W17C_080510_01
T000806-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		97.0 %	77.1-110		"	"	"	"	
Surrogate Dibromofluoromethane		129 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		96.8 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080601	08/06/10	08/06/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W12_080510_01
T000806-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	650	50	ug/l	1	0080603	08/06/10	08/07/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		108 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	9.8	1.0	"	"	"	"	"	"
sec-Butylbenzene	5.1	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W12_080510_01
T000806-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	7.7	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	2.8	1.0	"	"	"	"	"	"	
n-Propylbenzene	21	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	3.5	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

LL_W12_080510_01
T000806-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		<i>118 %</i>	<i>77.1-110</i>		"	"	"	"	<i>S-GC</i>
<i>Surrogate Dibromofluoromethane</i>		<i>140 %</i>	<i>66.3-111</i>		"	"	"	"	<i>S-GC</i>
<i>Surrogate Toluene-d8</i>		<i>104 %</i>	<i>84.7-109</i>		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080601	08/06/10	08/06/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

TB_080510

T000806-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

TB_080510
T000806-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	0080602	08/06/10	08/07/10	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

TB_080510
T000806-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate 4-Bromofluorobenzene	102 %	77.1-110		0080602	08/06/10	08/07/10	EPA 8260B		
Surrogate Dibromofluoromethane	130 %	66.3-111	"	"	"	"	"	"	S-GC
Surrogate Toluene-d8	99.0 %	84.7-109	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080603 - EPA 5030 GC

Blank (0080603-BLK1)							Prepared: 08/06/10 Analyzed: 08/10/10			
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	241	"		200		121	72.6-146			
LCS (0080603-BS1)							Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6350	50	ug/l	5500		115	75-125			
Surrogate 4-Bromofluorobenzene	223	"		200		111	72.6-146			
Matrix Spike (0080603-MS1)							Source: T000794-01 Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6430	50	ug/l	5500	46.0	116	65-135			
Surrogate 4-Bromofluorobenzene	239	"		200		120	72.6-146			
Matrix Spike Dup (0080603-MSD1)							Source: T000794-01 Prepared: 08/06/10 Analyzed: 08/07/10			
C6-C12 (GRO)	6100	50	ug/l	5500	46.0	110	65-135	5.28	20	
Surrogate 4-Bromofluorobenzene	238	"		200		119	72.6-146			



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080602 - EPA 5030 GCMS

Blank (0080602-BLK1)

Prepared: 08/06/10 Analyzed: 08/07/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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Batch 0080602 - EPA 5030 GCMS

Blank (0080602-BLK1)

Prepared: 08/06/10 Analyzed: 08/07/10

p-Isopropyltoluene	ND	1.0	ug/l						
Methylene chloride	ND	1.0	"						
Naphthalene	ND	1.0	"						
n-Propylbenzene	ND	1.0	"						
Styrene	ND	1.0	"						
1,1,2,2-Tetrachloroethane	ND	1.0	"						
1,1,1,2-Tetrachloroethane	ND	1.0	"						
Tetrachloroethene	ND	1.0	"						
1,2,3-Trichlorobenzene	ND	1.0	"						
1,2,4-Trichlorobenzene	ND	1.0	"						
1,1,2-Trichloroethane	ND	1.0	"						
1,1,1-Trichloroethane	ND	1.0	"						
Trichloroethene	ND	1.0	"						
Trichlorofluoromethane	ND	1.0	"						
1,2,3-Trichloropropane	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
Vinyl chloride	ND	1.0	"						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
<i>Surrogate 4-Bromofluorobenzene</i>	7.28	"	8.00		91.0	77.1-110			
<i>Surrogate Dibromofluoromethane</i>	8.69	"	8.00		109	66.3-111			
<i>Surrogate Toluene-d8</i>	8.12	"	8.00		102	84.7-109			

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Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080602 - EPA 5030 GCMS

LCS (0080602-BS1)		Prepared: 08/06/10 Analyzed: 08/07/10					
Chlorobenzene	20.4	1.0	ug/l	20.0	102	75-125	
1,1-Dichloroethene	22.2	1.0	"	20.0	111	75-125	
Trichloroethene	21.2	1.0	"	20.0	106	75-125	
Benzene	20.0	0.50	"	20.0	100	75-125	
Toluene	22.5	0.50	"	20.0	113	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	8.42		"	8.00	105	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.15		"	8.00	114	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.94		"	8.00	99.2	84.7-109	

Matrix Spike (0080602-MS1)		Source: T000794-02 Prepared: 08/06/10 Analyzed: 08/07/10					
Chlorobenzene	18.3	1.0	ug/l	20.0	ND	91.4	75-125
1,1-Dichloroethene	22.4	1.0	"	20.0	ND	112	75-125
Trichloroethene	18.3	1.0	"	20.0	ND	91.6	75-125
Benzene	18.2	0.50	"	20.0	0.430	88.6	75-125
Toluene	19.5	0.50	"	20.0	ND	97.6	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.45		"	8.00	106	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.27		"	8.00	116	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.77		"	8.00	97.1	84.7-109	

Matrix Spike Dup (0080602-MSD1)		Source: T000794-02 Prepared: 08/06/10 Analyzed: 08/11/10					
Chlorobenzene	17.7	1.0	ug/l	20.0	ND	88.4	75-125 3.28 20
1,1-Dichloroethene	22.1	1.0	"	20.0	ND	110	75-125 1.22 20
Trichloroethene	19.5	1.0	"	20.0	ND	97.3	75-125 5.98 20
Benzene	17.5	0.50	"	20.0	0.430	85.4	75-125 3.65 20
Toluene	20.7	0.50	"	20.0	ND	104	75-125 5.97 20
<i>Surrogate</i> 4-Bromofluorobenzene	8.08		"	8.00	101	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	7.79		"	8.00	97.4	66.3-111	
<i>Surrogate</i> Toluene-d8	8.07		"	8.00	101	84.7-109	

SunStar Laboratories, Inc.

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Lake Forest, California 92630
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080601 - General Preparation

Blank (0080601-BLK1)									Prepared & Analyzed: 08/06/10
Hexavalent Chromium	ND	1.00	ug/l						
LCS (0080601-BS1)									
Hexavalent Chromium	24.6	1.00	ug/l	25.0		98.5	85-115		
Matrix Spike (0080601-MS1)									
Hexavalent Chromium	23.5	1.00	ug/l	25.0	ND	94.0	85-115		
Matrix Spike Dup (0080601-MSD1)									
Hexavalent Chromium	24.6	1.00	ug/l	25.0	ND	98.5	85-115	4.62	20

SunStar Laboratories, Inc.

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Lake Forest, California 92630
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/12/10 16:26

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX
Address: 2640 Walnut Ave., Unit F Tustin, CA
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire

Date: 8.5.2010 Page: 1 Of 1
Project Name: CENCO
Collector: FS Client Project #: 1003-001-300
Batch #: T000 806 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	<u>Cr +6 (7199)</u>	Laboratory ID #	Comments/Preservative	Total # of containers	
LL_W17B_080510-01	8.5.2010	8:20	Water	610A/1 Poly	X					X						01	1	
LL_W14C_080510-01		13:13					X			X						02	1	
LL_W12_080510-01		14:15			X			X		X						03	1	
TB_080510				2 10As	X											04	2	
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time		Total # of containers	23										Notes	
	8.5.2010 17:00			8/5/10 1700		Chain of Custody seals Y/N/NA	N/A											
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time		Seals intact? Y/N/NA	N/A											
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time		Received good condition/cold	Y											1.4°
						Turn around time:												

Sample disposal Instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

COC 92869

SAMPLE RECEIVING REVIEW SHEET

BATCH # 1000806

Client Name: MUREX

Project: CENCO

Received by: Dan

Date/Time Received: 8/5/10 1700

Shipper Sun Star Courier GSO FedEx Other _____

Yes No*

Sample labels match COC ID's

Yes No*

Total number of containers received match COC

Yes No*

Proper containers received for analyses requested on COC

Yes No*

Proper preservative indicated on COC/containers for analyses requested

Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes
preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 8/6/10

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

26 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/06/10 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_MW106A_080610_01	T000816-01	Water	08/06/10 08:30	08/06/10 16:45
LL_MW107A_080610_01	T000816-02	Water	08/06/10 09:45	08/06/10 16:45
LL_MW107A_080610_02	T000816-03	Water	08/06/10 10:00	08/06/10 16:45
LL_W4_080610_01	T000816-04	Water	08/06/10 13:10	08/06/10 16:45
LL_W1_080610_01	T000816-05	Water	08/06/10 14:56	08/06/10 16:45
TB_080610	T000816-06	Water	08/06/10 14:56	08/06/10 16:45

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW106A_080610_01
T000816-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	450	50	ug/l	1	0080901	08/09/10	08/09/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		91.7 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromobenzene	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	1.6	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	1.0	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	1.2	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	1.0	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	3.5	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW106A_080610_01
T000816-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	8.0	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	2.1	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	25	1.0	"	"	"	"	"	"	"
Benzene	12	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

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Tustin CA, 92780

Project: Cenco
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Project Manager: Jeremy Squire

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08/26/10 13:05

LL_MW106A_080610_01
T000816-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate 4-Bromofluorobenzene</i>		<i>145 %</i>	<i>77.1-110</i>		"	"	"	"	<i>S-GC</i>
<i>Surrogate Dibromofluoromethane</i>		<i>129 %</i>	<i>66.3-111</i>		"	"	"	"	<i>S-GC</i>
<i>Surrogate Toluene-d8</i>		<i>103 %</i>	<i>84.7-109</i>		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080701	08/07/10	08/07/10	EPA 7199	I-02
Sulfide	ND	10	"	"	0081208	08/12/10	08/13/10	EPA 376.2/4500-S 2-G	



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Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_01
T000816-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1300	50	ug/l	1	0080901	08/09/10	08/09/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		83.6 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	1.1	1.0	"	"	"	"	"	"
sec-Butylbenzene	2.2	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	10	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	7.5	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_01
T000816-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	16	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	24	1.0	"	"	"	"	"	"	
n-Propylbenzene	16	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	8.3	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.9	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	120	12	"	25	"	"	08/12/10	"	
Toluene	150	12	"	"	"	"	"	"	
Ethylbenzene	39	0.50	"	1	"	"	08/10/10	"	
m,p-Xylene	72	1.0	"	"	"	"	"	"	
o-Xylene	1.3	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_01
T000816-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		111 %	77.1-110		"	"	"	"	S-GC
Surrogate Dibromofluoromethane		128 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		103 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080701	08/07/10	08/07/10	EPA 7199	I-02
Sulfide	450	10	"	"	0081208	08/12/10	08/13/10	EPA 376.2/4500-S 2-G	



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2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_02
T000816-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1300	50	ug/l	1	0080901	08/09/10	08/09/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		78.5 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	1.0	1.0	"	"	"	"	"	"
sec-Butylbenzene	2.2	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	9.5	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	7.0	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_02
T000816-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	16	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	29	1.0	"	"	"	"	"	"	
n-Propylbenzene	16	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	8.7	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.9	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	120	0.50	"	"	"	"	"	"	E-1
Toluene	160	0.50	"	"	"	"	"	"	E-1
Ethylbenzene	39	0.50	"	"	"	"	"	"	
m,p-Xylene	74	1.0	"	"	"	"	"	"	
o-Xylene	1.3	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_MW107A_080610_02
T000816-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		110 %	77.1-110		"	"	"	"	"
Surrogate Dibromofluoromethane		125 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		113 %	84.7-109		"	"	"	"	S-GC

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080701	08/07/10	08/07/10	EPA 7199	I-02
Sulfide	190	10	"	"	0081208	08/12/10	08/13/10	EPA 376.2/4500-S 2-G	



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W4_080610_01
T000816-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	570	50	ug/l	1	0080901	08/09/10	08/09/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		95.2 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	1.6	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	4.0	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W4_080610_01
T000816-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	16	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	10	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	7.2	1.0	"	"	"	"	"	"	
Benzene	68	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W4_080610_01
T000816-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		117 %	77.1-110		"	"	"	"	S-GC
<i>Surrogate Dibromofluoromethane</i>		129 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		108 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080701	08/07/10	08/07/10	EPA 7199	
Sulfide	ND	10	"	"	0081208	08/12/10	08/13/10	EPA 376.2/4500-S 2-G	



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W1_080610_01
T000816-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	260	50	ug/l	1	0080901	08/09/10	08/09/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		87.9 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W1_080610_01
T000816-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	4.2	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	1.8	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	17	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

LL_W1_080610_01
T000816-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	10	10	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		112 %	77.1-110		"	"	"	"	S-GC
Surrogate Dibromofluoromethane		125 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8		101 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0080701	08/07/10	08/07/10	EPA 7199	
Sulfide	ND	10	"	"	0081208	08/12/10	08/13/10	EPA 376.2/4500-S 2-G	



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

TB_080610
T000816-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

TB_080610

T000816-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	0080902	08/09/10	08/10/10	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

TB_080610
T000816-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate 4-Bromofluorobenzene	91.4 %	77.1-110		0080902	08/09/10	08/10/10	EPA 8260B		
Surrogate Dibromofluoromethane	124 %	66.3-111	"	"	"	"	"	"	S-GC
Surrogate Toluene-d8	96.8 %	84.7-109	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080901 - EPA 5030 GC

Blank (0080901-BLK1)

C6-C12 (GRO)	ND	50	ug/l				Prepared & Analyzed: 08/09/10
Surrogate 4-Bromofluorobenzene	168	"		200		83.8	72.6-146

LCS (0080901-BS1)

C6-C12 (GRO)	4900	50	ug/l	5500		89.1	75-125	Prepared & Analyzed: 08/09/10
Surrogate 4-Bromofluorobenzene	322	"		300		107	72.6-146	

Matrix Spike (0080901-MS1)

C6-C12 (GRO)	5390	50	ug/l	5500	570	87.6	65-135	Source: T000816-04 Prepared & Analyzed: 08/09/10
Surrogate 4-Bromofluorobenzene	170	"		200		84.8	72.6-146	

Matrix Spike Dup (0080901-MSD1)

C6-C12 (GRO)	5050	50	ug/l	5500	570	81.4	65-135	Source: T000816-04 Prepared: 08/09/10 Analyzed: 08/10/10	6.52	20
Surrogate 4-Bromofluorobenzene	163	"		200		81.4	72.6-146			



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080902 - EPA 5030 GCMS

Blank (0080902-BLK1)

Prepared & Analyzed: 08/09/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 0080902 - EPA 5030 GCMS

Blank (0080902-BLK1)		Prepared & Analyzed: 08/09/10								
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
<i>Surrogate</i> 4-Bromofluorobenzene	7.68	"	8.00		96.0	77.1-110				
<i>Surrogate</i> Dibromofluoromethane	9.46	"	8.00		118	66.3-111				S-GC
<i>Surrogate</i> Toluene-d8	8.01	"	8.00		100	84.7-109				

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080902 - EPA 5030 GCMS

LCS (0080902-BS1)		Prepared: 08/09/10 Analyzed: 08/10/10					
Chlorobenzene	21.4	1.0	ug/l	20.0	107	75-125	
1,1-Dichloroethene	23.2	1.0	"	20.0	116	75-125	
Trichloroethene	21.2	1.0	"	20.0	106	75-125	
Benzene	21.6	0.50	"	20.0	108	75-125	
Toluene	22.1	0.50	"	20.0	110	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	7.91		"	8.00	98.9	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	10.3		"	8.00	129	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.48		"	8.00	93.5	84.7-109	

Matrix Spike (0080902-MS1)		Source: T000816-04 Prepared: 08/09/10 Analyzed: 08/10/10					
Chlorobenzene	20.2	1.0	ug/l	20.0	ND	101	75-125
1,1-Dichloroethene	23.9	1.0	"	20.0	ND	119	75-125
Trichloroethene	20.5	1.0	"	20.0	ND	103	75-125
Benzene	35.3	0.50	"	20.0	68.0	NR	75-125
Toluene	21.6	0.50	"	20.0	ND	108	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.76		"	8.00	110	77.1-110	
<i>Surrogate</i> Dibromofluoromethane	9.90		"	8.00	124	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.91		"	8.00	98.9	84.7-109	

Matrix Spike Dup (0080902-MSD1)		Source: T000816-04 Prepared: 08/09/10 Analyzed: 08/10/10					
Chlorobenzene	22.9	1.0	ug/l	20.0	ND	115	75-125 12.7 20
1,1-Dichloroethene	22.9	1.0	"	20.0	ND	114	75-125 4.32 20
Trichloroethene	22.4	1.0	"	20.0	ND	112	75-125 8.85 20
Benzene	36.2	0.50	"	20.0	68.0	NR	75-125 2.38 20 QM-05
Toluene	24.1	0.50	"	20.0	ND	120	75-125 10.6 20
<i>Surrogate</i> 4-Bromofluorobenzene	9.00		"	8.00	112	77.1-110	S-GC
<i>Surrogate</i> Dibromofluoromethane	11.0		"	8.00	138	66.3-111	S-GC
<i>Surrogate</i> Toluene-d8	7.59		"	8.00	94.9	84.7-109	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003.001-300
Project Manager: Jeremy Squire

Reported:
08/26/10 13:05

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0080701 - General Preparation

Blank (0080701-BLK1)	Prepared & Analyzed: 08/07/10									
Hexavalent Chromium	ND	1.00	ug/l							
LCS (0080701-BS1)	Prepared & Analyzed: 08/07/10									
Hexavalent Chromium	26.4	1.00	ug/l	25.0	106	85-115				
Matrix Spike (0080701-MS1)	Source: T000816-04 Prepared & Analyzed: 08/07/10									
Hexavalent Chromium	10.4	1.00	ug/l	25.0	ND	41.7	85-115	QM-07		
Matrix Spike Dup (0080701-MSD1)	Source: T000816-04 Prepared & Analyzed: 08/07/10									
Hexavalent Chromium	17.7	1.00	ug/l	25.0	ND	70.7	85-115	51.5	20	QM-07

Batch 0081208 - General Preparation

Blank (0081208-BLK1)	Prepared: 08/12/10 Analyzed: 08/13/10							
Sulfide	ND	10	ug/l					
LCS (0081208-BS1)	Prepared: 08/12/10 Analyzed: 08/13/10							
Sulfide	18.0	10	ug/l	20.0	90.0	80-120		
LCS Dup (0081208-BSD1)	Prepared: 08/12/10 Analyzed: 08/13/10							
Sulfide	21.0	10	ug/l	20.0	105	80-120	15.4	20



Murex	Project: Cenco	
2640 Walnut Ave. Unit F	Project Number: 1003.001-300	Reported:
Tustin CA, 92780	Project Manager: Jeremy Squire	08/26/10 13:05

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- I-02 This result was analyzed outside of the EPA recommended holding time.
- E-1 The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX
Address: 2640 Walnut Ave., Unit F Tustin, CA
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire

Date: 8-6-2010 Page: 1 Of 1
Project Name: CENCO
Collector: FS Client Project #: 1003-001-300
Batch #: T000816 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	60107000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
LL_MW106A_080610_01	8-6-2010	8:30	Water	SIBA/Poly	X									01	
LL_MW107A_080610_01		9:45				X				X				02	
LL_MW107A_080610_02		10:00				X				X				03	
LL_W4_080610_01		13:10				X				X				04	
LL_W1_080610_01		14:56				X				X				05	
TB_080610				2 VOCs	X									06	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time											Total # of containers	37
	8-6-2010 16:45		8/6/10 1645											Notes	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time											Chain of Custody seals Y/N/NA	✓
														Seals intact? Y/N/NA	✓/A
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time											Received good condition/cold	Y
														Turn around time:	5.2

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time:

COC 92870

SAMPLE RECEIVING REVIEW SHEET

BATCH # T000816

Client Name: MUREX

Project: CENCO

Received by: Dan

Date/Time Received: 8/6/10 1645

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = **6°C > 0°C (no frozen containers)**

Temperature: cooler #1 5.4 °C +/- the CF (- 0.2°C) = 5.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes
preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 8/7/10

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 August 2010

Jeremy Squire
Murex
2640 Walnut Ave. Unit F
Tustin, CA 92780
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/09/10 18:23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler
Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_MW503B_080910_01	T000826-01	Water	08/09/10 10:00	08/09/10 18:23
LL_W16A_080910_01	T000826-02	Water	08/09/10 13:22	08/09/10 18:23
LL_W16B_080910_01	T000826-03	Water	08/09/10 14:55	08/09/10 18:23
LL_W10_080910_01	T000826-04	Water	08/09/10 16:20	08/09/10 18:23
LL_W16C_080910_01	T000826-05	Water	08/09/10 17:30	08/09/10 18:23
LL_W16C_080910_02	T000826-06	Water	08/09/10 17:40	08/09/10 18:23
TB_080910	T000826-07	Water	08/09/10 00:00	08/09/10 18:23

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_MW503B_080910_01
T000826-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	3700	50	ug/l	1	0081003	08/10/10	08/10/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		97.2 %		72.6-146	"	"	"	"	"

Metals by SM 3500 Series Methods

Ferrous Iron	ND	0.100	mg/l	1	0081101	08/11/10	08/13/10	EPA6010/SM 3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	17	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	2.3	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	1.6	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	3.8	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_MW503B_080910_01
T000826-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	25	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	3.4	1.0	"	"	"	"	"	"	
n-Propylbenzene	24	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.3	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	5.4	1.0	"	"	"	"	"	"	
Benzene	270	0.50	"	"	"	"	"	"	
Toluene	5.3	0.50	"	"	"	"	"	"	
Ethylbenzene	2.4	0.50	"	"	"	"	"	"	
m,p-Xylene	3.8	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_MW503B_080910_01
T000826-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	0.65	0.50	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate 4-Bromofluorobenzene</i>		102 %	77.1-110		"	"	"	"	"
<i>Surrogate Dibromofluoromethane</i>		112 %	66.3-111		"	"	"	"	"
<i>Surrogate Toluene-d8</i>		102 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	752	20.0	mg/l	1	0081102	08/11/10	08/11/10	EPA 310.1	
Hexavalent Chromium	ND	1.00	ug/l	"	0081001	08/10/10	08/10/10	EPA 7199	I-02

Anions by EPA Method 300.0

Sulfate as SO4	10.3	0.500	mg/l	1	0081008	08/10/10	08/11/10	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	"

RSK-175

Methane	71.8	1.00	ug/l	1	0080610	08/09/10	08/11/10	RSK-175	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16A_080910_01
T000826-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	120	50	ug/l	1	0081003	08/10/10	08/10/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		108 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16A_080910_01
T000826-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	0.93	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex

2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco

Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16A_080910_01
T000826-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate</i> 4-Bromofluorobenzene		110 %	77.1-110		"	"	"	"	"
<i>Surrogate</i> Dibromofluoromethane		99.9 %	66.3-111		"	"	"	"	"
<i>Surrogate</i> Toluene-d8		99.5 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0081001	08/10/10	08/10/10	EPA 7199	I-02
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SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16B_080910_01
T000826-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0081003	08/10/10	08/17/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		73.0 %		72.6-146	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16B_080910_01
T000826-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1.3	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex

2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco

Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16B_080910_01
T000826-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate</i> 4-Bromofluorobenzene		93.9 %	77.1-110		"	"	"	"	"
<i>Surrogate</i> Dibromofluoromethane		98.2 %	66.3-111		"	"	"	"	"
<i>Surrogate</i> Toluene-d8		95.6 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0081001	08/10/10	08/10/10	EPA 7199	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W10_080910_01
T000826-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	7900	50	ug/l	1	0081003	08/10/10	08/10/10	EPA 8015C
Surrogate 4-Bromofluorobenzene		93.9 %		72.6-146	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	4.4	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	3.8	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	3.0	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W10_080910_01
T000826-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	21	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	2.4	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	60	50	"	50	"	"	08/16/10	"	"
n-Propylbenzene	28	1.0	"	1	"	"	08/12/10	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	10	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	62	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	2400	25	"	50	"	"	08/16/10	"	"
Toluene	12	0.50	"	1	"	"	08/12/10	"	"
Ethylbenzene	130	25	"	50	"	"	08/16/10	"	"
m,p-Xylene	110	1.0	"	1	"	"	08/12/10	"	"
o-Xylene	1.9	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	93	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W10_080910_01
T000826-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		121 %	77.1-110		"	"	"	"	S-GC
Surrogate Dibromofluoromethane		96.6 %	66.3-111		"	"	"	"	
Surrogate Toluene-d8		105 %	84.7-109		"	"	"	"	

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0081001	08/10/10	08/10/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16C_080910_01
T000826-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0081003	08/10/10	08/10/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		93.6 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16C_080910_01
T000826-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex

2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco

Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16C_080910_01
T000826-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0081002	08/10/10	08/16/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate 4-Bromofluorobenzene</i>		95.1 %	77.1-110		"	"	"	"	"
<i>Surrogate Dibromofluoromethane</i>		110 %	66.3-111		"	"	"	"	"
<i>Surrogate Toluene-d8</i>		98.6 %	84.7-109		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0081001	08/10/10	08/10/10	EPA 7199	
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SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16C_080910_02
T000826-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	0081003	08/10/10	08/10/10	EPA 8015C	
Surrogate 4-Bromofluorobenzene		90.9 %		72.6-146	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

LL_W16C_080910_02
T000826-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex	Project: Cenco	
2640 Walnut Ave. Unit F	Project Number: 1003-001-300	Reported:
Tustin CA, 92780	Project Manager: Jeremy Squire	08/18/10 09:56

LL_W16C_080910_02
T000826-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>77.1-110</i>		"	"	"	"	"
<i>Surrogate Dibromofluoromethane</i>		<i>108 %</i>	<i>66.3-111</i>		"	"	"	"	"
<i>Surrogate Toluene-d8</i>		<i>94.9 %</i>	<i>84.7-109</i>		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium	ND	1.00	ug/l	1	0081001	08/10/10	08/10/10	EPA 7199	
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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

TB_080910
T000826-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

TB_080910

T000826-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	0081002	08/10/10	08/12/10	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

TB_080910

T000826-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate 4-Bromofluorobenzene	100 %	77.1-110		0081002	08/10/10	08/12/10	EPA 8260B	
Surrogate Dibromofluoromethane	101 %	66.3-111	"	"	"	"	"	"
Surrogate Toluene-d8	97.2 %	84.7-109	"	"	"	"	"	"

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Murex
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0081003 - EPA 5030 GC

Blank (0081003-BLK1)

C6-C12 (GRO)	ND	50	ug/l							
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Surrogate 4-Bromofluorobenzene 152 " 200 76.2 72.6-146

LCS (0081003-BS1)

C6-C12 (GRO)	5180	50	ug/l	5500	94.1	75-125				
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Surrogate 4-Bromofluorobenzene 149 " 200 74.3 72.6-146

LCS Dup (0081003-BSD1)

C6-C12 (GRO)	5030	50	ug/l	5500	91.5	75-125	2.89	20		
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Surrogate 4-Bromofluorobenzene 195 " 200 97.4 72.6-146

Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0081101 - EPA 3010A

Blank (0081101-BLK1)

Ferrous Iron ND 0.100 mg/l Prepared: 08/11/10 Analyzed: 08/13/10

LCS (0081101-BS1)

Ferrous Iron 0.531 0.100 mg/l 0.526 101 80-120 Prepared: 08/11/10 Analyzed: 08/13/10

Matrix Spike (0081101-MS1)

Source: T000826-01 Prepared: 08/11/10 Analyzed: 08/13/10

Ferrous Iron 0.571 0.100 mg/l 0.526 ND 108 75-125

Matrix Spike Dup (0081101-MSD1)

Source: T000826-01 Prepared: 08/11/10 Analyzed: 08/13/10

Ferrous Iron 0.530 0.100 mg/l 0.526 ND 101 75-125 7.45 20



Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0081002 - EPA 5030 GCMS

Blank (0081002-BLK1)

Prepared: 08/10/10 Analyzed: 08/11/10

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0081002 - EPA 5030 GCMS

Blank (0081002-BLK1)

Prepared: 08/10/10 Analyzed: 08/11/10

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.85		"	8.00		98.1	77.1-110			
<i>Surrogate Dibromofluoromethane</i>	8.79		"	8.00		110	66.3-111			
<i>Surrogate Toluene-d8</i>	7.88		"	8.00		98.5	84.7-109			

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0081002 - EPA 5030 GCMS

LCS (0081002-BS1)		Prepared: 08/10/10 Analyzed: 08/12/10						
Chlorobenzene	20.5	1.0	ug/l	20.0	102	75-125		
1,1-Dichloroethene	18.2	1.0	"	20.0	91.0	75-125		
Trichloroethene	17.8	1.0	"	20.0	88.8	75-125		
Benzene	19.1	0.50	"	20.0	95.4	75-125		
Toluene	18.0	0.50	"	20.0	90.1	75-125		
<i>Surrogate</i> 4-Bromofluorobenzene	8.79		"	8.00	110	77.1-110		
<i>Surrogate</i> Dibromofluoromethane	8.75		"	8.00	109	66.3-111		
<i>Surrogate</i> Toluene-d8	7.53		"	8.00	94.1	84.7-109		
LCS Dup (0081002-BSD1)		Prepared: 08/10/10 Analyzed: 08/12/10						
Chlorobenzene	17.4	1.0	ug/l	20.0	87.2	75-125	15.9	20
1,1-Dichloroethene	17.9	1.0	"	20.0	89.6	75-125	1.55	20
Trichloroethene	16.7	1.0	"	20.0	83.6	75-125	6.09	20
Benzene	18.0	0.50	"	20.0	90.2	75-125	5.60	20
Toluene	16.7	0.50	"	20.0	83.4	75-125	7.66	20
<i>Surrogate</i> 4-Bromofluorobenzene	7.97		"	8.00	99.6	77.1-110		
<i>Surrogate</i> Dibromofluoromethane	8.85		"	8.00	111	66.3-111		
<i>Surrogate</i> Toluene-d8	7.62		"	8.00	95.2	84.7-109		





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Murex
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0081001 - General Preparation

Blank (0081001-BLK1)									Prepared & Analyzed: 08/10/10
Hexavalent Chromium	ND	1.00	ug/l						
LCS (0081001-BS1)									
Hexavalent Chromium	24.6	1.00	ug/l	25.0		98.5	85-115		
Matrix Spike (0081001-MS1)									
Hexavalent Chromium	24.3	1.00	ug/l	25.0	ND	97.1	85-115		
Matrix Spike Dup (0081001-MSD1)									
Hexavalent Chromium	25.1	1.00	ug/l	25.0	ND	100	85-115	3.23	20

Batch 0081102 - General Preparation

Blank (0081102-BLK1)									Prepared & Analyzed: 08/11/10
Total Alkalinity	ND	20.0	mg/l						
Duplicate (0081102-DUP1)									
Total Alkalinity	754	20.0	mg/l		752			0.252	20

SunStar Laboratories, Inc.

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Murex
2640 Walnut Ave. Unit F
Tustin CA, 92780

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 0081008 - General Preparation

Blank (0081008-BLK1)		Prepared: 08/10/10 Analyzed: 08/11/10						
Sulfate as SO4	ND	0.500	mg/l					
Nitrate as NO3	ND	0.500	"					
LCS (0081008-BS1)		Prepared: 08/10/10 Analyzed: 08/11/10						
Sulfate as SO4	10.0	0.500	mg/l	10.0	100	80-120		
Nitrate as NO3	10.7	0.500	"	11.1	96.0	80-120		
Matrix Spike (0081008-MS1)		Source: T000826-01 Prepared: 08/10/10 Analyzed: 08/11/10						
Sulfate as SO4	21.0	0.500	mg/l	10.0	10.3	107	80-120	
Nitrate as NO3	10.9	0.500	"	11.1	ND	97.8	80-120	
Matrix Spike Dup (0081008-MSD1)		Source: T000826-01 Prepared: 08/10/10 Analyzed: 08/11/10						
Sulfate as SO4	20.8	0.500	mg/l	10.0	10.3	105	80-120	0.800
Nitrate as NO3	10.6	0.500	"	11.1	ND	95.1	80-120	2.77
								20

SunStar Laboratories, Inc.

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Murex
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/18/10 09:56

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080610 - EPA 3810m Headspace

Blank (0080610-BLK1)

Methane ND 1.00 ug/l

Prepared: 08/06/10 Analyzed: 08/11/10

Duplicate (0080610-DUP1)

Source: T000794-01 Prepared: 08/06/10 Analyzed: 08/11/10

Methane 105 1.00 ug/l 92.8 12.6 20

SunStar Laboratories, Inc.

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Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/18/10 09:56
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Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX
Address: 2640 Walnut Ave., Unit F Tustin, CA
Phone: (714) 508-0880 Fax: (714) 508-0880
Project Manager: Jeremy Squire

Date: 8.9.2010 Page: 1 Of 1
Project Name: CENCO
Collector: FS Client Project #: 1003-001-300
Batch #: T000 826 EDF #:

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody seals Y/N/NA

Seals intact? Y/N/NA

Received good condition/cold

Turn-around time:

COC 92871

SAMPLE RECEIVING REVIEW SHEET

BATCH # T 000 826

Client Name: Murex

Project: Cenco

Received by: Dan

Date/Time Received: 8/9/10 1823

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 1.8 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 1.6 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper containers indicated on COC/containers for analyses requested Yes No* N/A